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1911-1912

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ANNUAL CATALOGUE
1911-1912

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University Calendar

University Calendar

The detailed calendar of each school will be found below

1911-1912

1911

July 17	Mon.	And the third Monday evening of each month thereafter Regular Meeting of the Executive Committee of the Board of Trustees
Oct. 10	Tue.	Regular Meeting of the Board of Trustees

1912

Jan. 9	Tue.	Regular Meeting of the Board of Trustees
Jan. 28	Sun.	Founders' Day
Apr. 9	Tue.	Regular Meeting of the Board of Trustees
June 11	Tue.	Annual Meeting of the Board of Trustees
June 12	Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT

1912-1913

1912

July 15	Mon.	And the third Monday evening of each month thereafter Regular Meeting of the Executive Committee of the Board of Trustees.
Oct. 8	Tue.	Regular Meeting of the Board of Trustees

1913

Jan. 14	Tue.	Regular Meeting of the Board of Trustees
Jan. 28	Tue.	Founders' Day
Apr. 8	Tue.	Regular Meeting of the Board of Trustees
June 10	Tue.	Annual Meeting of the Board of Trustees
June 11	Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT

The College of Liberal Arts, the Graduate School, and the College of Engineering

1911-1912

1911		
Sept. 25	Mon.	Academic year 1911-1912 begins
Sept. 25	Mon.	Examinations for admission
Sept. 25	Mon.	First day of registration
Sept. 27	Wed.	Second examinations
Sept. 28	Thu.	Class work begins
Oct. 10	Tue.	Last day for registration of candidates for advanced degrees
Nov. 17	Fri.	Gage Prize Debate
Nov. 30	Thu.	Thanksgiving Recess, to December 3, Sunday, inclusive
Dec. 6	Wed.	Last day for filing of titles of theses for advanced degrees
Dec. 22	Fri.	Christmas recess, to January 2, Tuesday, inclusive
1912		
Jan. 3	Wed.	Class work begins
Jan. 19	Fri.	Central Debating League Contest
Jan. 20	Sat.	Last day for presentation of orations for the Kirk Prize
Jan. 31	Wed.	Mid-year examinations begin
Feb. 8	Thu.	Additional examinations
Feb. 9	Fri.	Second semester begins
Feb. 10	Sat.	Second examinations
Feb. 12	Mon.	Class work resumed
Feb. 16	Fri.	Sargent Prize Contest
Feb. 22	Thu.	Washington's Birthday
Mar. 1	Fri.	Local Freshmen Debate
Mar. 8	Fri.	Kirk Prize Contest
Mar. 15	Fri.	Bragdon Prize Contest
Mar. 28	Thu.	Deering Prize Contest
Apr. 5	Fri.	Raymond Prize Contest
Apr. 5	Fri.	Easter Recess, to April 8, Monday, inclusive
Apr. 8	Mon.	Second examinations
Apr. 12	Fri.	Cleosophic Prize Contest
Apr. 19	Fri.	Intercollegiate Freshman Debate
May 1	Wed.	Last day for the presentation of theses for the Harris Prize and for the Orrington Lunt Prize
May 3	Fri.	Northern Oratorical League Contest

May 11 Sat.	Last day for the presentation of these for advanced degrees
May 25 Sat.	Oral examinations of candidates for advanced degrees
May 29 Wed.	Regular examinations begin
May 30 Thu.	Memorial Day
June 6 Thu.	Additional Examinations
June 12 Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT
June 13 Thu.	Summer surveying begins, College of Engineering

1912-1913

1912	
Sept. 23 Mon.	Academic year 1912-1913 begins
Sept. 23 Mon.	Examinations for admission
Sept. 23 Mon.	First day of registration
Sept. 25 Wed.	Second examinations
Sept. 26 Thu.	Class work begins
Oct. 10 Thu.	Last day for registration of candidates for advanced degrees
Nov. 15 Fri.	Gage Prize Debate
Nov. 28 Thu.	Thanksgiving recess, to December 1, Sunday, inclusive
Dec. 4 Wed.	Last day for filing of titles of theses for advanced degrees
Dec. 20 Fri.	Christmas recess, to January 2, Thursday, inclusive
1913	
Jan. 3 Thu.	Class work begins
Jan. 18 Fri.	Central Debating League Contest
Jan. 19 Sat.	Last day for presentation of orations for the Kirk prize
Jan. 30 Wed.	Mid-year examinations begin
Feb. 7 Thu.	Additional examinations
Feb. 8 Fri.	Second semester begins
Feb. 9 Sat.	Second examinations
Feb. 11 Mon.	Class work resumed
Feb. 15 Fri.	Sargent Prize Contest
Feb. 22 Wed.	Washington's Birthday
Feb. 28 Fri.	Local Freshman Debate
Mar. 7 Fri.	Bragdon Prize Contest
Mar. 14 Fri.	Kirk Prize Contest
Mar. 21 Fri.	Easter recess, to March 24, Monday inclusive
Mar. 24 Mon.	Second examinations

Mar. 27 Thu.	Deering Prize Contest
Apr. 4 Fri.	Raymond Prize Contest
Apr. 11 Fri.	Cleosophic Prize Contest
Apr. 18 Fri.	Intercollegiate Freshman Debate
May 1 Tue.	Last day for the presentation of theses for the Harris Prize and for the Orrington Lunt Prize
May 2 Fri.	Northern Oratorical League Contest
May 10 Sat.	Last day for the presentation of theses for advanced degrees
May 24 Sat.	Oral examinations of candidates for advanced degrees
May 28 Wed.	Regular examinations begin
May 30 Fri.	Memorial Day
June 5 Thu.	Additional examinations
June 11 Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT
June 12 Thu.	Summer surveying begins, College of Engineering

The Medical School

1911-1912

1911	
Sept. 29 Fri.	Examinations for admission; registration begins; examinations for conditioned students
Oct. 3 Tue.	First semester begins; last day for registration for advanced degrees, College of Liberal Arts
Nov. 30 Thu.	Thanksgiving Recess, to December 3, Sunday, inclusive
Dec. 6 Wed.	Last day for filing titles of theses for advanced degrees, College of Liberal Arts
Dec. 22 Fri.	Christmas Recess, to January 2, Tuesday, inclusive
1912	
Feb. 1 Thu.	Mid-year examinations begin
Feb. 8 Thu.	Second semester begins
Feb. 22 Thu.	Washington's Birthday
Apr. 5 Fri.	Easter Recess, to April 8, Monday, inclusive
May 30 Thu.	Memorial Day
June 3 Mon.	Examinations begin
June 12 Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT

1912-1913

1912	
Sept. 27 Fri.	Examinations for conditioned students; registration begins

Oct. 1	Tue.	First semester begins
Nov. 28	Thu.	Thanksgiving recess to December 1, Sunday, inclusive
Dec. 23	Mon.	Christmas recess, to January 2, Thursday, inclusive
1913		
Feb. 3	Mon.	Mid-year examinations begin
Feb. 10	Mon.	Second semester begins
Feb. 22	Sat.	Washington's Birthday
Mar. 21	Fri.	Easter recess to March 24, Monday, inclusive
May 30	Fri.	Memorial Day
June 2	Mon.	Examinations begin
June 11	Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT

The Law School

1911-1912

1911		
Sept. 25	Mon.	Registration of new students
Sept. 26	Tue.	Registration for applicants for advanced standing
Sept. 27	Wed.	Registration of other students
Sept. 28	Thu.	Lectures begin
Nov. 30	Thu.	Thanksgiving Recess, to December 3, Sunday, inclusive
Dec. 22	Fri.	Christmas Recess, to January 2, Tuesday, inclusive
1912		
Jan. 25	Thu.	Lectures close
Jan. 29	Mon.	Mid-year examinations begin
Feb. 5	Mon.	Second semester begins
Feb. 12	Mon.	Lincoln's Birthday
Feb. 22	Thu.	Washington's Birthday
Apr. 20	Fri.	Towle Prize Debate
May 24	Thu.	Lectures close
May 25	Fri.	Examinations begin
May 30	Thu.	Memorial Day
June 12	Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT

1912-1913

1912		
Sept. 23	Mon.	Registration of new students
Sept. 24	Tue.	Registration of applicants for advanced standing
Sept. 25	Wed.	Registration of other students
Sept. 26	Thu.	Lectures begin

Nov. 28	Thu.	Thanksgiving Recess, to December 1, Sunday inclusive
Dec. 21	Sat.	Christmas Recess, to January 2, Thursday, inclusive
1913		
Jan. 23	Thu.	Lectures close
Jan. 27	Mon.	Mid-year examinations begin
Feb. 3	Mon.	Second semester begins
Feb. 12	Wed.	Lincoln's Birthday
Feb. 22	Sat.	Washington's Birthday
Apr. 18	Fri.	Towle Prize Debate
May 22	Thu.	Lectures close
May 23	Fri.	Examinations begin
May 30	Fri.	Memorial Day
June 11	Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT

The School of Pharmacy

1911-1912

1911		
Sept. 25	Mon.	First day of registration
Sept. 27	Wed.	Lectures and class work begin
Nov. 30	Thu.	Thanksgiving Recess, to December 3, Sunday, inclusive
Dec. 21	Thu.	Christmas Recess, to January 2, Tuesday, inclusive
1912		
Feb. 22	Thu.	Washington's Birthday
Apr. 1	Mon.	Examinations begin, Graduate in Pharmacy Course
Apr. 1	Mon.	Recess, to Sunday, April 7, inclusive, Pharmaceutical Chemist Course
Apr. 10	Wed.	Graduating exercises, Graduate in Pharmacy Course and three year Pharmaceutical Chemist Course
May 30	Thu.	Memorial Day
June 6	Thu.	Senior examinations begin, Pharmaceutical Chemist Course
June 12	Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT

1912-1913

1912		
Sept. 23	Mon.	First day of registration
Sept. 25	Wed.	Lectures and class work begin
Nov. 28	Thu.	Thanksgiving Recess, to Sunday, December 1, inclusive

Dec. 23	Mon.	Christmas Recess, to Sunday, January 5, inclusive
1913		
Feb. 22	Sat.	Washington's Birthday
Mar. 31	Mon.	Examinations begin, Graduate in Pharmacy Course
Mar. 31	Mon.	Recess to Sunday, April 6, inclusive, Pharmaceutical Chemist Course
Apr. 9	Wed.	Graduating exercises, Graduate in Pharmacy Course and three-year Pharmaceutical Chemist Course
May 30	Fri.	Memorial Day
June 2	Mon.	Senior examinations begin, Pharmaceutical Chemist Course
June 11	Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT

The Dental School

1911-1912

1911		
Oct. 3	Tue.	Academic year begins
Nov. 30	Thu.	Thanksgiving Recess, to December 3, Sunday, inclusive
Dec. 22	Fri.	Christmas Recess, to January 2, Tuesday, inclusive
1912		
Feb. 1	Thu.	Mid-year examinations begin
Feb. 9	Fri.	Second semester begins
Feb. 12	Mon.	Lincoln's Birthday
Feb. 22	Thu.	Washington's Birthday
May 20	Mon.	Senior examinations begin
May 27	Mon.	Junior and Freshman examinations begin
May 30	Thu.	Memorial Day
June 10	Mon.	Alumni and Commencement Banquet
June 11	Tue.	Home Coming Alumni Clinic
June 12	Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT
June 13	Thu.	Practitioner's Summer Course begins
July 10	Wed.	Practitioner's Course ends

1912-1913

1912		
Oct. 1	Tue.	Academic year begins
Nov. 28	Thu.	Thanksgiving Day
Dec. 21	Sat.	Christmas Recess to January 1, Wednesday, inclusive
1913		
Jan. 30	Thu.	Mid-year examinations begin

Feb. 7	Fri.	Second semester begins
Feb. 12	Wed.	Lincoln's Birthday
Feb. 22	Sat.	Washington's Birthday
May 23	Fri.	Senior examinations begin
May 29	Thu.	Junior and Freshman examinations begin
May 30	Fri.	Memorial Day
June 9	Mon.	Alumni and Commencement banquet
June 10	Tue.	Home Coming Alumni Clinic
June 11	Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT
June 12	Thu.	Practitioner's Course begins
July 9	Wed.	Practitioner's Course ends

The School of Music

1911-1912

1911		
Sept. 19	Tue.	and Sept. 20, Wednesday Examinations for admission
Sept. 21	Thu.	First Quarter begins
Nov. 22	Wed.	First Quarter ends
Nov. 23	Thu.	Second Quarter begins
Nov. 30	Thu.	Thanksgiving Recess, to December 3, Sunday, inclusive
Dec. 23	Sat.	Christmas Recess, to January 3, Wednesday, inclusive
1912		
Feb. 7	Wed.	Second Quarter ends
Feb. 8	Thu.	Third Quarter begins
Apr. 10	Wed.	Third Quarter ends
Apr. 11	Thu.	Fourth Quarter begins
June 12	Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT

1912-1913

1912		
Sept. 17	Thu.	and September 18, Wednesday Examinations for admission
Sept. 19	Thu.	First Quarter begins
Nov. 20	Wed.	First Quarter ends
Nov. 21	Thu.	Second Quarter begins
Nov. 28	Thu.	Thanksgiving Recess, to December 1, Sunday, inclusive
Dec 25	Thu.	Christmas Recess, to January 5, Sunday, inclusive

1913

Feb. 5	Wed.	Second Quarter ends
Feb. 6	Thu.	Third Quarter begins
Apr. 9	Wed.	Third Quarter ends
Apr. 10	Thu.	Fourth Quarter begins
June 11	Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT

The School of Commerce

1911-1912

1911

Sept 28	Thu.	Opening day
Sept. 29	Fri.	Registration day
Oct. 2	Mon.	Class work begins
Nov. 29	Wed.	and November 30, Thursday, Thanksgiving intermission
Dec. 22	Fri.	Christmas Recess, to January 1, Monday, inclusive

1912

Jan. 2	Tue.	Class work resumed
Jan. 29	Mon.	Mid-year examinations begin
Feb. 5	Mon.	Second semester begins
Feb. 22	Thu.	Washington's Birthday
May 29	Wed.	Instruction closes
June 12	Wed.	FIFTY-FOURTH ANNUAL COMMENCEMENT

1912-1913

1912

Sept. 23-30		Registration week
Sept. 26	Thu.	Opening night
Sept. 30	Mon.	Class work begins
Nov. 27	Wed.	and November 28, Thursday, Thanksgiving intermission
Dec. 23	Mon.	Christmas Recess, to January 5, Sunday, inclusive

1913

Jan. 6	Mon.	Class work resumed
Jan. 27	Mon.	Mid-year examinations begin
Feb. 3	Mon.	Second semester begins
Feb. 22	Wed.	Washington's Birthday
May 29	Thu.	Instruction closes
June 11	Wed.	FIFTY-FIFTH ANNUAL COMMENCEMENT

1911	1912	1912	1913

JULY

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MAY

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JUNE

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The University

The University

ON the last day of May, in the year 1850, there met in the City of Chicago, at the office of Grant Goodrich, 109 Lake Street, near Dearborn, nine men, Richard A. Blanchard, Jabez K. Botsford, Andrew J. Brown, Henry W. Clark, John Evans, Grant Goodrich, Zadoc Hall, Richard Haney, and Orrington Lunt, to consider the founding of a university in the vicinity of Chicago. They agreed that "the interests of Christian learning demand the immediate establishment of a University in the North-west," and appointed a committee to petition the General Assembly for a charter. January 28, in the next year, 1851, Governor French signed the Act that incorporated Northwestern University under the title of "the Trustees of the Northwestern University." The name of the corporation has since been changed to Northwestern University.

The first Board of Trustees consisted of thirty-six persons, some of whom were representatives of annual conferences of the Methodist Episcopal Church and some residents of Chicago or vicinity. The corporation as at present constituted consists of thirty-six trustees elected by the Board, and two elected by each of four annual conferences of the Methodist Episcopal Church, making a total of forty-four trustees.

The charter provides that a majority of the Board shall be members of the Methodist Episcopal Church, but that no particular religious faith shall be required of those who become students at the institution.

Amendments have provided that other chartered institutions may become departments of the University; that all property of whatever kind or description belonging to or owned by the said corporation shall be forever free from taxation for any and all purposes; that no spirituous, vinous, or fermented liquors shall be sold under license or otherwise, within four miles of the location of the University.

After considering several locations in the vicinity of Chicago, the Trustees selected for the University a tract of land on the shore of Lake Michigan, twelve miles north of the heart of Chicago. Here in 1855 the first University building was erected, and about this location has grown up the City of Evanston, a beautiful residential city of twenty-five thousand inhabitants. The professional schools of Medicine, Law, Pharmacy, Dentistry, and Commerce are situated in the City of Chicago.

The Corporation

The Corporation

Officers

William Deering
Honorary President

William Fraser McDowell, D.D., LL.D.
President

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Term Expires in 1913

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Term Expires in 1914

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Term Expires in 1915

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Executive Officers

Executive Officers

The University

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Officers of Instruction and Government

In the University and in the Affiliated and the Coöperating Schools.

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Nina Shumway Knapp.....828 Simpson Street, Evanston
Instructor in Piano.....Music

William Henry Knapp.....828 Simpson Street, Evanston
Instructor in Voice Culture.....Music

Charles Rudolph Edward Koch, D.D.S..31 West Lake St., Chicago
Lecturer on Dental Economics; Secretary.....Dentistry

Sumner Leibnitz Koch.....2431 Dearborn Street, Chicago
Assistant in Anatomy.....Medicine

Albert Kocourek, LL.B.....84 East Lake Street, Chicago
Lecturer on Jurisprudence.....Law

Robert Agedius Krost, M.D.....5858 Prairie Avenue, Chicago
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Thomas Henry Lewis, M.D.....32 North State Street, Chicago
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Winford Lee Lewis, Ph.D.....718 Clark Street, Evanston
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Librarian .....University

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Lecturer on Illinois Law.....Law

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Charles George Little, B.S., LL.B..1418 Forest Avenue, Evanston
Professor of Law.....Law

William Albert Locy, Ph.D., Sc.D.....
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.....Medicine

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Assistant Professor of Philosophy.....Liberal Arts

Isabella Lovedale .....Kenilworth
Instructor in Voice Culture and Interpretation.....Oratory

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Professor of Music.....Liberal Arts

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Instructor in Otology.....Medicine

Hugh McGuigan, Ph.D., M.D....2431 Dearborn Street, Chicago
Professor of Pharmacology.....Medicine

Corey Hugh McKenna, M.D.....32 North State Street, Chicago
Instructor in Surgery.....Medicine

George Buchanan Macfarlane, D.D.S..138 North State St., Chicago
Clinical Instructor in Operative Dentistry.....Dentistry
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Otis Hardy Maclay, B.S., M.D..17 East Washington St., Chicago
Clinical Assistant in Laryngology and Rhinology....Medicine
Milton Mandel, M.D.....3025 Prairie Avenue, Chicago
Instructor in Medicine.....Medicine
George Rogers Mansfield, Ph.D....2242 Ridge Avenue, Evanston
Assistant Professor of Geology.....Liberal Arts
George Paull Marquis, M.D.....31 North State Street, Chicago
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Clarence Stephen Marsh, A.B....2023 Sherman Avenue, Evanston
Registrar.....Liberal Arts, Engineering
Robert Grant Martin, Ph.D.....1570 Asbury Avenue, Evanston
Instructor in English Literature.....Liberal Arts
Frederick Menge, M.D.....17 East Washington Street, Chicago
Professor of Laryngology and Rhinology.....Medicine
Robert Campbell Menzies, M.D....31 North State Street, Chicago
Instructor in Surgery.....Medicine
John Wesley Merritt, B.S.....2242 Ridge Avenue, Evanston
Assistant in Mineralogy.....Liberal Arts
Huston French Methven, D.D.S....31 West Lake Street, Chicago
Instructor in Prosthetic Dentistry.....Dentistry
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Instructor in Voice Culture.....Music
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Lecturer on Illinois Law.....Law
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Professor of Anatomy.....Dentistry
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Professor of Advertising.....Commerce

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General Secretary, Y. M. C. A.....Liberal Arts

Pinckney Freeman Smith, A.M.....720 Simpson Street, Evanston
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Franklyn Bliss Snyder, Ph.D.....Park Apartments, Evanston
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Kellogg Speed, B.S., M.D....122 South Michigan Avenue, Chicago
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George Ernest Stanford ....7129 North Ashland Avenue, Chicago
Shop Assistant.....Engineering

Gleason Fillmore Starkweather.....722 Emerson Street, Evanston
Superintendent of Buildings and Grounds.....Liberal Arts

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Lecturer on Hymnology.....Music

Walter Allen Stults.....912 Main Street, Evanston
Instructor in Voice Culture.....Music

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Demonstrator in Operative Dentistry.....Dentistry

Richard Joseph Tivnen, M.D.....32 North State Street, Chicago
Instructor in Ophthalmology.....Medicine

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*Deceased January 19, 1912.

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..... Commerce

Harry Isaac Van Tuyl, B.S., M.D., D.D.S.....
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Superintendent .....Mercy Hospital

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President .....Swedish

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Thomas James Watkins, M.D.....31 North State Street, Chicago
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William Alfred White.....Y. M. C. A., Evanston
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Music Methods; Director, Public School Music Department
..... Music

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Lillian Marion Wilson.....Willard Hall, Evanston
House Director.....Willard Hall
Robert Edward Wilson, Ph.M....2015 Sherman Avenue, Evanston
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Walter LeRoy Wilson, D.D.S.....St. Charles
Demonstrator in Prosthetic Technics.....Dentistry
John Adam Wolfer, M.D.....Blackstone Hotel, Chicago
Clinical Assistant in Surgery.....Medicine
Maurice Wolff, M.D.....31 North State Street, Chicago
Clinical Assistant in Genito-Urinary Dispensary.....Medicine
Caius Marcius Wood.....2320 Thayer Street, Evanston
Assistant Librarian.....Garrett
William Logan Woodburn, A.M.....902 Asbury Avenue, Evanston
Instructor in Botany.....Liberal Arts
Chester Henry Yeaton, A.M.....2241 Sherman Avenue, Evanston
Instructor in Mathematics.....Liberal Arts
Abram Van Epps Young, Ph.B...2020 Orrington Avenue, Evanston
Professor of Chemistry.....Liberal Arts
Earl Todd Young, D.D.S.....31 West Lake Street, Chicago
Demonstrator in Operative Dentistry.....Dentistry
Roy Young.....1413 Grove Street, Evanston
Assistant in Athletics.....Liberal Arts
Charles Benjamin Younger, M.D..17 E. Washington Street, Chicago
Instructor in Laryngology and Rhinology.....Medicine
Albert Bernard Yudelson, M.D.....4539 Indiana Avenue, Chicago
Clinical Assistant in Neurology.....Medicine
Joseph Zeisler, M.D.....32 North State Street, Chicago
Professor of Skin and Venereal Diseases.....Medicine
Frederick Robert Zeit, M.D.....2431 Dearborn Street, Chicago
Professor of Pathology and Bacteriology.....Medicine

Grounds, Buildings, and Equipment

Grounds, Buildings, and Equipment

The University

The University Campus in Evanston has an area of about seventy-five acres and is beautifully situated on the shore of Lake Michigan, two miles from the northern limit of the city of Chicago. On it are the buildings of the College of Liberal Arts, the College of Engineering, Garrett Biblical Institute, Evanston Academy, and the School of Oratory. The School of Music and the Women's dormitories—Willard Hall, Pearsons Hall, and Chapin Hall—are on Willard Hall Campus, distant from the University Campus about three minutes walk. The Medical School is in Chicago, between 24th and 25th Streets on Dearborn Street. The Schools of Law, Pharmacy, Dentistry, and Commerce are in the University Building, at the corner of Lake and Dearborn Streets.

Orrington Lunt Library is a structure of Bedford limestone, erected in 1893, largely from a gift of Mr. Orrington Lunt, of Evanston, a charter member of the Board of Trustees and for some time its president. Its dimensions are 162 feet by 73 feet. The main floor contains a room for book storage, directly connected with a second book-room in the basement, the reading-room, and the offices of administration. On the second floor are an auditorium with seating capacity for three hundred persons, a large room occupied by the Art Collection, donated to the University by the University Guild, and apartments for class, seminary, and office use. Other parts of the building are used for class rooms.

The Gymnasium is an imposing structure on the upper Campus. Its area is 300 feet by 150 feet. In the erection of the building every effort was made to secure a maximum of convenience and efficiency.

The equipment of the building includes a gymnasium floor of 7,200 square feet, fitted with all apparatus necessary for class work; a smaller room for boxing, fencing, wrestling, and for the use of special apparatus; a swimming pool; an indoor field without obstructions,

215 by 120 feet, and provided with apparatus for track athletics; social rooms, offices, trophy room, and locker rooms.

The indoor field is heated in cold weather so that indoor track work and athletic games may continue throughout the academic year. The form and spaciousness of the indoor field permit its use as an auditorium for the principal events of commencement week. It will accommodate an audience of 4,500 people.

Northwestern Field was provided as an athletic field at a cost of $25,000, exclusive of the value of the land. It is twelve acres in area, comprising two foot-ball fields, a base-ball diamond, a quarter-mile cinder track with a 220-yard straightaway, and pits for pole vaulting and jumping. The Field House contains dressing quarters and shower baths. The bleachers have a capacity of ten thousand persons.

The Tennis Courts are immediately north of the lower campus.

The Central Heating Plant, situated on the lake shore, east of the Old Gymnasium building, is equipped with seven boilers with a combined capacity of 1,000 horse power, sufficient to supply heat to all the buildings on the main campus and on Willard Hall Campus, and power to the Engineering Building. At present there are 16 buildings connected with the plant.

College of Liberal Arts

University Hall, a capacious stone structure of attractive architecture, was erected in 1869. It contains the President's office, the administrative offices of the College, the botanical, geological, and zoölogical laboratories, lecture and recitation rooms, and private offices for professors.

Fayerweather Hall of Science, erected in 1886, was the gift of Mr. D. B. Fayerweather, of New York. It is constructed of stone and brick, with terra-cotta trimmings. The front is 130 feet, and the depth 60 feet. At the rear are two wings, extending 54 feet, inclosing a court in which the power house for the building is located. It is divided into two sections, for chemistry and physics, separated by a fire-proof wall.

Old College, built in 1855, was the first building erected by the University. It stood originally on the corner of Hinman Avenue and Davis Street, and for many years was the only building the University used for educatioal purposes. It was moved to the Campus in 1871, and was enlarged for the use of the Academy. Since 1899, when the

Academy was transferred to Fisk Hall, it has been used for college class-rooms.

Dearborn Observatory is a substantial stone building, erected in 1888 through the generosity of Mr. James B. Hobbs, of Chicago, a trustee of the University. Its length from north to south is 81 feet, and its greatest breadth is 71 feet. It includes a dome for the equatorial, a meridian circle room, a library, lecture-room, dark-room, offices, and a small machine shop, the whole being arranged especially for convenience in astronomical work.

The equatorial refracting telescope was made by Alvan Clark and Sons, in 1861. It has a focal length of 23 feet and a clear aperture of 18½ inches. This was completely remounted in 1911 by Warner & Swasey. It is fitted with micrometer, double-slide plate holder, and other appliances necessary for research work.

The meridian circle is of the first class, and was constructed in 1867 by Messrs. A. Repsold and Sons. This instrument has an object glass of 6⅜ inches aperture, and a divided circle of 40 inches diameter, reading by four microscopes.

Hough's printing and recording chronographs are used for recording meridian observations and other phenomena.

The Observatory has a Bond chronometer, and three Howard mercurial pendulum clocks, measuring engines for celestial photographs; computing engines, sextants, theodolits, etc., for student use.

The library contains all the important astronomical periodicals, the publications of the main observatories and astronomical societies, star catalogues and charts, and numerous special works on all branches of astronomy.

The Mineralogical Laboratory, a two-story brick building, 40 feet by 80 feet, erected in 1871, was formerly used as the gymnasium. It contains the mineralogical collections and the shops for mining and metallurgy. The offices of the Superintendent of Buildings and Grounds are on the first floor.

The College of Engineering

Swift Hall of Engineering, completed in 1909, is situated on the lake shore east of Orrington Lunt Library. Funds for the erection of the building and for its maintenance were donated by Mrs. Gustavus F. Swift and Mr. Edward F. Swift, of Chicago.

The building is four stories in height, is chaste in its lines of construction, and is especially adapted to the purposes of engineering studies. The outer walls are of gray stone, the roof of tile, the inner

walls of pressed brick. Most of the frame of the building, the stairways, and the floors are of reenforced concrete. A minimum of wood has been employed in the construction. Heating and ventilation are furnished by the blast system which forces warm fresh air into the building and exhausts the foul air.

The Hall is 126 feet long and 58 feet wide. It gives ample accommodation for class rooms, offices, laboratories, library, and study rooms.

The Medical School

The Laboratory Building is situated on Dearborn Street between Twenty-fourth and Twenty-fifth Streets. The building is a five-story structure, 110 feet by 105 feet, of cut stone, brick, and terra cotta. The building contains a large number of laboratories, an amphitheater, the museum; and rooms for lectures, for the medicine and surgery dispensary clinics, for dissections, and for original research.

Davis Hall was erected in the summer of 1893. The building contains the administrative offices, one large and several smaller amphitheaters, suites of rooms for the various departments of medicine, large clinic rooms and research laboratories, the library and reading room. Thirty thousand patients are treated here annually.

The Calumet Avenue Dispensary was erected in 1908 for ambulatory patients. Sixteen clinic rooms insure privacy and thoroughness of examination. In addition to these there are on the main floor a dry room, X-Ray laboratory, a photographic room, with dark-room equipment and office, and a director's room; and on the second floor a large assembly room.

Mercy Hospital is situated on Twenty-Sixth Street, extending from Prairie Avenue to Calumet Avenue. It is under the care of the faculty of the Medical School, and is conducted by the Sisters of Mercy. A large new pavilion has just been erected. The capacity is about four hundred beds. The operating rooms are equipped with every modern facility.

Wesley Hospital stands beside the buildings of the School and is connected with them by a covered corridor. Among the most notable recent additions to the equipment of the Medical School are the operating rooms, wards, and laboratories of Wesley Hospital. The wards and private rooms contain together two hundred twenty-five beds.

The Hospital has four large wards, of twenty beds each, separating the sexes, and medical from surgical patients. There are also eight smaller wards, a Children's Wards and two Babies' Wards. The pa-

tients from these wards, both large and small are available for clinical instruction. Over 4,000 patients were treated last year.

The Law School, the School of Pharmacy, the Dental School, and the School of Commerce

Northwestern University Building, which contains the Law School, the School of Pharmacy, the Dental School, and the School of Commerce, is located at the south-east corner of Lake and Dearborn Streets, Chicago. This property was acquired by the University in 1901 and remodeled for the use of these schools. The Chicago offices of the President and of the Business Manager of the University are in this building.

The Law School occupies the third floor, the School of Pharmacy the fourth floor, the Dental School the fifth, sixth, and seventh floors. Each school is equipped with class-rooms, library, study and social rooms, lockers, and office rooms. The Law School has in addition a court room, alumni room, and rooms for professors. The School of Pharmacy and the Dental School have large and well equipped laboratories. The Dental School is provided with spacious and well lighted rooms for its clinics.

The School of Commerce has its office on the fourth floor and uses for its classes the lecture rooms of the Law School and of the School of Pharmacy.

The School of Music offers three courses in Musical Theory and Public School Music Methods. Instruction in these classes is given in one of the rooms of the Law School.

The situation of these schools, in the heart of Chicago, affords many advantages.

The School of Music

Music Hall is situated on Willard Hall Campus, a short distance west of the University Campus. It was erected as a home for the School of Music in 1897, and is substantially built of stone and brick, with a tile roof, and is finished in pine. It contains thirty-two rooms besides a well arranged concert hall seating over three hundred. Fourteen of the rooms are used for teaching purposes and the remainder for practice. The Hall is provided with a stage and a two manual pipe organ and pedals. The School of Music uses for its various purposes thirty-eight pianos, both grands and uprights.

The Preparatory Schools

Fisk Hall, erected in 1898, the gift of Mr. William Deering, is devoted to the Evanston Academy. It was named in honor of Professor Herbert F. Fisk, Principal of the Academy from 1873 until 1904. The building is a three-story Romanesque structure of brick and terra cotta, with stone trimmings and a tile roof. It stands at the south end of the campus with a frontage of 180 feet on Sheridan Road. The woodwork is of quartered oak, and the heating, lighting, and ventilating appointments are excellent. A fine three manual Casavant pipe organ, gift of the alumni of the College of Liberal Arts, is used for chapel purposes by the College and the Academy, as well as for practice purposes by organ students in the School of Music.

Hatfield House, the Academy dormitory for boys, erected in 1890, is situated on the University campus. In 1906, through the generosity of Mr. James A. Patten, of Evanston, it was remodeled as a modern and well-equipped dormitory for twenty-five boys. The rooms are in suites, consisting of a study and two well-lighted bed-rooms with wardrobes.

Grand Prairie Seminary, situated at Onarga, Illinois, has four buildings, an auditorium seating six hundred persons, a recitation hall, a dormitory for women, and a gymnasium. The campus on which these buildings are situated consists of about six acres of beautifully shaded ground.

Elgin Academy has two well constructed buildings, situated in the most elevated portion of the city of Elgin. The main building is a three-story brick structure used for general class-room purposes. Lovell Science Hall was erected in 1888 through the generosity of Mrs. Vincent S. Lovell.

Garrett Bibical Institute

Memorial Hall, a handsome building of pressed brick, was erected on the campus for Garrett Biblical Institute in 1887. It contains the library and lecture rooms of the Institute and a chapel with seating capacity for about five hundred. The chapel windows are adorned with elaborate designs in rich cathedral glass, in harmony with the ideal of the hall, which was erected as a memorial to deceased professors of the Institute and to others well known for interest in theological studies. During the summer of 1906 a fire-

proof addition was completed for the Library and Archæological Museum, which has been recently endowed.

Heck Hall, a dormitory, was erected in 1867. It is a brick building, five stories in height, heated by steam and lighted by electricity. The rooms are in suites consisting of study, bed-room, and wardrobe.

The School of Oratory

Annie May Swift Hall was erected during the year 1895. The style of architecture is Venetian. The lower part of the building is of rock-faced Lemont limestone, and the upper stories of buff-colored Roman brick and terra cotta. The roof is of red tile. The building is heated by steam and lighted by electricity. It was named in memory of a deceased daughter of the late Mr. Gustavus F. Swift, of Chicago, a trustee of the University and the largest contributor toward the erection of the building. On the first floor are an auditorium, reading-room, and reception rooms. The second story is divided into fifteen rooms for private instruction.

Libraries

The main library, housed in the Orrington Lunt Library building on the University Campus, contains the collection of the College of Liberal Arts, the College of Engineering, the School of Music, and Evanston Academy. This library is at the service of all members of the University. Persons not connected with the University, desiring the use the library for purposes of study, may be granted library privileges. Additions are made at the rate of about seven thousand volumes and pamphlets a year. The library includes special collections known as the Greenleaf Collection and the Schneider Collection.

The Greenleaf Collection, the gift of the late Mr. Luther L. Greenleaf of Evanston, contains 11,246 bound volumes and a large and valuable assortment of unbound dissertations and monographs, chiefly publications of foreign universities and learned societies. It is unusually complete in Greek and Latin classics, every author being represented by the best editions from the earliest to a recent date. It contains also a choice selection of standard works in German, and other Modern languages. In the departments of history, philosophy, theology, and the fine arts, there are many works of unique value.

The Schneider Collection is the German section of the library, added in 1898 through the generosity of German citizens of Chicago,

and numbers 2,533 volumes. It includes many first editions of standard authors, original prints from the period of the Reformation, and a large collection of annuals, *Musenalmanache* and *Taschenbücher*, of the eighteenth and nineteenth centuries.

The Library of the Medical School, known as the Alumni Library, has been acquired by purchase, and by donations from students, alumni, and members of the faculty. It contains a large number of reference books and dictionaries, and all of the larger systems of Medicine and Surgery. Each department of instruction in the School is well represented, and all of the more important recent works in the various departments of instruction are added to the Library as they appear.

The Gary Library of Law, the Library of the Law School, is centrally located in the rooms of the School. The space devoted to it is divided into large alcoves, each containing a table and comfortable chairs. The library is well stocked with reports and necessary works of reference, and is being rapidly increased. The generosity of Mr. Elbert H. Gary, 1867, has established and maintained a special, rarely comprehensive and scholarly collection of legal treatises and texts. Its equipment makes it pre-eminently adapted to work of investigation. A fuller description of this library is given in the Law School section of this catalogue.

The Library of the School of Music is composed of orchestral scores, orchestral parts, four and eight-hand piano arrangements and chorus music in ample quantities to conduct properly the orchestral, chamber music, ensemble, and chorus classes. The music section of the general library, embracing reference works, general works, and special works on music to the number of 258 volumes is housed in Music Hall, where it is accessible to students of the College of Liberal Arts and of the School of Music.

The Library of Garrett Biblical Institute is in Memorial Hall. It has been collected to meet the needs of theological students, and is well selected and conveniently arranged. A rare collection of Methodist literature, the largest and richest collection in existence, has been given to this library by Mr. William Deering.

STATISTICS

The number of bound volumes and pamphlets in the several libraries of the University, November, 1911, was as follows:

	Bound Volumes	Pamphlets
Northwestern University Library, including the College of Liberal Arts, College of Engineering, Dearborn Observatory, and Evanston Academy	85,000	55,000
The Medical School	6,221	8,800
The Law School	40,900	3,800
The School of Pharmacy	1,501	1,460
The Dental School	3,010	16,000
The School of Music	950	1,900
The School of Commerce	245	200
The School of Oratory	1,000	
Garrett Biblical Institute	30,000	4,500
Norwegian-Danish Theological Seminary	1,400	150
Swedish Theological Seminary	1,543	500
	171,770	92,310

Students residing in Evanston and non-residents, by special arrangement, have free use of the Evanston Public Library, containing 48,150 volumes. In Chicago students have access to the Chicago Public Library, 462,361 volumes; the John Crerar Library, 270,000 volumes; the Newberry Library, 285,000 volumes; and the Library of the Chicago Historical Society, 50,000 volumes.

Museums

The Museum of the College of Liberal Arts was for many years the object of special attention on the part of the late Professor Oliver Marcy. It contains several thousand rare and valuable specimens, and is divided into sections as follows: Anthropology, Botany, Geology, Mineralogy, and Zoölogy. The section of Mineralogy is in the laboratory of Mineralogy and Metallurgy; the other sections, on the fourth floor of University Hall, and in the rooms of the departments of Botany, Geology, and Zoölogy.

The Anthropology Section comprises about 8,000 specimens in aboriginal archæology, and has been developed largely through the interest of Dr. William A. Phillips of Evanston. Primitive ceramic art in the United States is well represented by several hundred specimens from the mounds of Illinois, Wisconsin, Kentucky, and Missouri. Primitive work in stone and copper is represented by collections from various parts of the United States and from England. During recent years a collection of material from the cliff-dwellings of the pueblos of New Mexico has been added to the Museum.

The Botany Section is made up chiefly of gifts received from alumni and friends of the College and of collections made by students and instructors. It contains about fifteen thousand specimens. It includes collections made by Robert Kennicott from the Red River of the North; by Vasey from the Rocky Mountains; by Thomas and Bentley, and by I. A. Lapham, from Southern Illinois; also collections from New England and New York, the Lake Superior region, and Cook County, Illinois. The Henry H. Babcock Herbarium, donated in 1887 by Mrs. Mary Keyes Babcock, of Kenilworth, is systematically arranged, is well provided with substantial cases, and contains specimens from all quarters of the globe, in number about five thousand.

The Geology Section contains typical rocks from this country and Europe. These exhibit the variations in structure and texture of the large groups of sedimentary, metamorphic, and igneous rocks, and also show the rock formations in the geological column from the more ancient to the recent rocks. The series of fossils, both of plants and of animals, are extensive, containing characteristic fossils of the different geologic periods. The collections that are especially valuable are: 1, Cretaceous and Tertiary fossils, the gift of the Smithsonian Institution; 2, fossils and rocks from the Illinois Geological Survey; 3, Niagara fossils from Chicago and Racine, including type specimens; 4, Illinois Carboniferous flora, largely from Grundy County; 5, miscellaneous specimens from many parts of the world.

The Mineralogy Section contains specimens of many mineral species in numbers sufficient to illustrate fully characteristics and occurrence. In addition to the general collection are the Ayers loan-collection; additions from the Columbian Exposition, consisting chiefly of mass specimens and illustrations of economic ores; the Tyler collection, containing many crystals, notably good calcites; and a rare collection of azurites and malachites.

The Zoölogy Section contains: 1, the mammals, birds, reptiles, and batrachians indigenous to Illinois; 2, the mammals and birds of the New South Wales exhibit at the Columbian Exposition, the kangaroos and lemurs, the platypus and the echidna, the emu and the cassowary, the rifle-bird, the regent, the lyre-bird, and the apteryx from New Zealand—in all four hundred fifty specimens, a very complete presentation of that strange fauna; 3, a series of corals, and a series of birds from the Philippine Islands, including what is thought to be all the species of cuckoos and parrots for that locality; 4, a series of skeletons, prepared by Ward, including the elephant, the whale, the

American crocodile, and skeletons of birds and of fishes; 5, about 30,000 miscellaneous specimens, including large animals such as the moose, the buffalo, the Virginia deer, the white bear, and the reindeer; birds from India, Central America, Brazil, British Guiana, Norway, and Russia; a collection of 15,000 marine and fresh-water shells; a large collection of fish donated by the Smithsonian Institution; fish from Lake Michigan, prepared by Dr. William A. Phillips; and a multitude of low forms of marine life, collected by Professor William North Rice, of Middletown, Connecticut.

Owing to the lack of room and suitable cases much of the material of the Museum is not now on exhibition, but is stored awaiting a proper building. The main part of the Mineralogy section is on exhibit, and specimens in the other sections especially helpful in teaching are available.

The Museum of the Medical School is arranged on the second floor of the Laboratory Building, and contains preparations and specimens illustrative of normal, pathological, and comparative anatomy. The specimens are preserved in natural colors by the Kayserling method and are unusually well adapted for the purpose of instruction.

The Museum of the School of Pharmacy, situated on the fourth floor of the University Building in Chicago, is exceptionally complete in exhibits of drugs, chemicals, preparations, and apparatus.

The Museum of the Dental School includes: 1, specimens to illustrate comparative anatomy, heads with teeth, of fish, reptiles, surians, and of the several orders of mammals; 2, an exceptionally complete and valuable set of specimens of the human skull, with dissections in a series showing the development of the teeth and the roots from the first appearance to the adult; 3, a large collection of abnormal formations of the human teeth, collected by students, by alumni, and by members of the dental profession.

The Museum of Garrett Biblical Institute.—A Museum of Christian Antiquities, endowed in memory of the Reverend Charles W. Bennett, Professor of Church History, is installed in Memorial Hall. Pictorial illustrations of the early Christian Art found in the Catacombs are reproduced on the walls and various Christian antiquities have been purchased abroad. The Museum is open to the public.

Miscellaneous Information

Miscellaneous Information

Presidents of the University

Clark Titus Hinman, D.D., President, 1853-1854
Henry Sanborn Noyes, A.M., Acting-President, 1854-1856
Randolph Sinks Foster, D.D., LL.D., President, 1856-1860
Henry Sanborn Noyes, A.M., Acting-President, 1860-1867
David Hilton Wheeler, D.D., Acting-President, 1867-1869
Erastus Otis Haven, D.D., LL.D., President, 1869-1872
Charles Henry Fowler, D.D., LL.D., President, 1872-1876
Oliver Marcy, LL.D., Acting-President, 1876-1881
Joseph Cummings, D.D., LL.D., President, 1881-1890
Henry Wade Rogers, LL.D., President, 1890-1900
Daniel Bonbright, A.M., LL.D., Acting-President, 1900-1902
Edmund Janes James, Ph.D., LL.D., President, 1902-1904
Thomas Franklin Holgate, Ph.D., LL.D., Acting-President, 1904-1906
Abram Winegardner Harris, Sc.D., LL.D., President, 1906-

Equipment and Expenditures

The value of buildings and grounds used for educational purposes, including Libraries, Museums, and Sundry Equipments was, June 30, 1911, $3,376,130. The Endowment and Trust Funds, in addition to educational property, were $4,555,766.

The expenditures of the University for educational purposes were for the year 1910-1911:

University General	$124,910
College of Liberal Arts	218,402
Medical School	80,619
Law School	42,739
College of Engineering	30,783
School of Pharmacy	25,885

Dental School	75,949
School of Music	52,975
School of Commerce	18,314
Evanston Academy	31,705
Willard Hall	28,640
Hatfield House	9,286
	$740,297

The University Guild

The University Guild is an association of women which was founded in 1892 to acquire valuable works of art for the University, and also to cultivate artistic taste in the community in matters of everyday life by means of frequent lectures and discussions. It has a membership of five hundred, and meets on the second Tuesday of each month, from October to May, in Orrington Lunt Library.

In 1908 the Guild established and still assists the University in supporting Art Courses in the College of Liberal Arts, which are open to College students and townspeople alike, at a nominal fee. The Instructor is known as the University Guild Lecturer on the Principles of Art. See page

The Guild also supports a scholarship in the University and maintains a membership in the Municipal Art League of Chicago by means of which many special opportunities are offered for studying the art collections of Chicago.

The Art Collection of the Guild includes many valuable specimens of pottery, porcelain, glassware, and bronze. In addition to these there are several plaster casts presented by the French Government, twenty busts of eminent scholars, Thorwaldsen's Mercury, Venus, Hebe, and the Shepherdess. The nucleus of a collection of oil and water color paintings, engravings, etching, photographs, prints, textiles, lantern slides, and miscellaneous articles has been acquired also, to which additions are being made from year to year.

Northwestern University Settlement

An association composed of alumni and friends of the University maintains, in Chicago, a social center known as the Northwestern University Settlement. The building, at the corner of Augusta and Noble Streets, is held in trust by the University for the use of the Settlement; it is a four-story brick structure, 60 by 78 feet. On the ground floor are the kindergarten, club rooms for men, gymnasium, and boiler room. The main floor contains the kitchen, assembly hall,

reception room, office, and library. Five large connected club rooms, one of which is used as the house dining room, and the domestic science room, and the serving room occupy the second floor. The third floor contains rooms for thirteen residents.

The object of the Settlement is the intellectual and social improvement of the neglected city population. The settlement is located on the edge of the largest Polish Quarter of the city, and in the heart of the most densely populated district in Chicago. The resident group is composed of men and women engaged in educational, professional, and public service who wish to come into living contact with the people who bear the burden of the industrial world. Opportunity is here offered to undergraduates for philanthropic work and practical acquaintance with sociological problems.

The general expenses of the Settlement are met by membership subscriptions and voluntary contributions.

University Publications

The University publishes the Northwestern University Bulletin, issued weekly during the academic year. In this series are included the General Catalogue of the University, the catalogues and other circulars of the various Schools, several issues of the *Alumni News Letter,* sent to every alumnus of the University, and other news bulletins to stimulate the interest of the public in the work of the University.

The Bulletin Series includes the *Quarterly Bulletin of the Medical School,* sent to every alumnus, which contains original articles and notes of medical research, prepared and edited by the faculty of the Medical School.

The Illinois Law Review, issued monthly during the academic year, is controlled by an association composed of alumni, members of the faculty, students of the Law School, and practicing lawyers of Chicago.

The Journal of Criminal Law and Criminology is edited and managed by members of the College and of the Law School faculties. It is the official organ of the American Institute of Criminal Law and Criminology.

The Northwestern Dental Journal is issued quarterly by the faculty and alumni of the Dental School.

The students of the College of Liberal Arts, with the co-operation of those of the other schools, publish a daily, *The Northwestern.* The College of Liberal Arts students issue *The Northwestern Magazine,* a literary periodical; and *The Syllabus,* an illustrated annual.

The students of Evanston Academy publish *The Academian,* a weekly, and the *Bear,* an annual; the students of Grand Prairie Seminary publish *The Seminary Breeze,* a monthly; the students of Elgin Academy *The Orange and Black,* a monthly.

The Fund for the Promotion of International Peace and Christian Unity

On April 1, 1909 Mr. John R. Lindgren donated $25,000 to Northwestern University for the purpose of promoting International Peace and of furthering Interdenominational Harmony and the intimate unity of Christendom.

This is to be accomplished by holding conferences at such times as may be deemed expedient. The conferences are to be opened by an address from some distinguished advocate of International Peace, or Christian Unity, followed by a free discussion of the topics and of the propositions introduced. If it is deemed advisable, prizes may be offered for essays upon topics relating to the purposes of the fund.

The committee consists of Dr. Abram Winegardner Harris, President of Northwestern University; Mr. John Richard Lindgren, Trustee of Northwestern University; and Dr. Henry Clay Mabie, Rochester, New York; Mr. Willitm A. Peterson, Chicago; Professor James Alton James, of Northwestern University, Secretary of the Committee, and Professor Frederick Carl Eiselen of Garrett Biblical Institute.

Public Lectures and Concerts

The Norman W. Harris Lectures—These lectures, given annually, are endowed by a gift of Mr. Norman Waite Harris of Chicago. In his letter of gift the donor expressed the desire "that the fund should be used to stimulate scientific research of the highest type and to bring the result of such research before the students and friends of the Northwestern University, and through them before the world." The term "scientific research" was used to mean "scholarly investigation in any department of human thought or effort, without limitation to research in the so-called natural sciences, but with a desire that such investigation should be extended to cover the whole field of human knowledge." The lectures given on this foundation are published by the University.

The Sixth Course of Lectures is to be given in April, 1912, by Professor Milton Joseph Rosenau of Harvard University on the subject, The Milk Question.

The Committee on the Norman W. Harris Lectures is: Dr. Abram W. Harris, Professor Henry Crew, Professor James Alton James, and Professor Norman Dwight Harris.

Many lectures and evening courses and concerts, open to students and to the general public, are given under the auspices of the University or of its various organizations.

Sermon on the Day of Prayer for Colleges—The Reverend Thomas Nicholson, D.D., LL.D.

Baccalaureate Sermon, 1911—The Reverend Alfred Edwin Craig, Ph.D., LL.D.

Commencement Addresses, 1911—Douglass Montgomery Johnson, Robert Gregory Piper, and Charles Anderson Pace of the College of Liberal Arts; and Robert William Schupp of the Law School.

Annual Address before the Phi Beta Kappa Society, 1911—Professor, Shailer Mathews, A.M., D.D., of the University of Chicago. "The Scholar in a Commercial Age."

Lectures before the University Guild—Lectures on art topics are delivered before the members of the University Guild and their friends.

Interpretative Lectures on the Modern Drama—A series of nine lectures by Mr. Edgar White Burrill, A.M., Instructor in English Language, College of Liberal Arts.

Lectures before the Engineering Club—Modern Gas Engines and Producer Gas Plants by Professor William Charles Bauer; Engineering Literature by G. Harwood Frost; Determining the Position of the Nantucket Light Ship by Professor William H. Burger; Illustrated Lecture on Flight by Mr. George A. Richardson; Measurement of the Earth by Director John F. Hayford; Problems of the Engineering Graduate by Mr. Frank F. Fowle; Measurement of Stream Flow by Mr. J. C. Hoyt; Manufacture of Tin Plate by Professor Milby R. Hammer; How to Get and Hold a Job by Mr. Ernest McCullough; The Cantilever Bridge at Beaver, Pa. by Professor Olin H. Basquin; The West Indies and the Panama Canal Zone by Mr. W. R. Patterson, Principles Involved in the Artificial Production of Light by Professor William Charles Bauer.

Lectures before the Sigma Xi Society—Radioactivity and the Constitution by Professor Herbert M. McCoy; Studies in Stellar Evolu-

tion by Professor T. J. J. See; Refractory Manganese Silver Ores by Mr. W. H. Coghill; Cytological Studies in Liverworts and Mosses by Dr. W. L. Woodburn; Some Anomalies in the Nitrogen Metabolism by Professor J. H. Long.

Railway Problems—A series of six lectures on Railway Problems by Samuel Orace Dunn, Lecturer on Transportation, College of Liberal Arts.

Gaelic League—Lecture with reading of poems and proverbs of the Gaelic Language by Rev. Dr. O'Flaherty and Mr. Fionan MacColum of Ireland.

The Artists' Series of Concerts in the School of Music—These concerts are given under the auspices of the School of Music and are open to the public at a small fee. The series for 1911-1912 is as follows: Song Recital by Cecil Fanning; Song Recital by Christine Miller; Organ Recital by J. Fred. Wolle; Piano Recital by Katharine Goodson; Four Recitals of Chamber Music by the University String Quartette.

Course in the Appreciation of Music—A series of lectures with musical illustrations, given monthly during the season of 1911-1912 under the auspices of the School of Music. These lectures are open to the University community without admission fee.

Lectures, School of Commerce—Business and Market Conditions, Mr. Roger W. Babson; The Factors that enter into an Advertising Campaign, Mr. John Lee Mahin; The Advertising Solicitor, Mr. A. P. Johnson; Practical Selling, Mr. Albert C. MacMahon; Everyday Selling Problems, Mr. Martin W. Cresap; Selling Policies and Methods of a Large Wholesale House, Mr. F. L. Macomber; Fire Insurance Salesmanship, Mr. W. C. Bourn; Bond Salesmanship, Mr. Caldwell.

Lectures Given in Garrett Biblical Institute—Three lectures on Evangelism by Bishop Thoburn; Missions in the Philippines, Mr. J. C. Robbins; Ideals of the Labor Movement, Rev. Harry Ward; Patriotism in International Relations, Rev. Charles E. Beals; Indefatigability, Mr. William Watt; Woman's Home Missionary Society, Miss Carry Barge; Archaeology and the Old Testament, Professor F. C. Eiselen; Reading, "He Knew Lincoln," Professor J. L. Lardner; Chicago Methodist Missions, Rev. James Rowe; Church Federation, Rev. C. E. Bacon; A World-wide Vision of the Temperance Movement, Rev. Clarence True Wilson; Ministerial Efficiency, Hon. William Jennings Bryan; Religious Advance in the Philippines,

Bishop William F. McDowell; The Fourth Ecumenical Conference of Methodism, Professor Milton S. Terry; The Church and the Social Problem, President Samuel Plantz; Three Great Rulers of China, Rev. H. Olin Cady; The Liquor Traffic Not a Business, but a Crime, Rev. Clarence True Wilson; The Feminization of the Church, President Alfred E. Craig; Four lectures on Religious and Social Conditions in Germany, Professor Caspar Rene Gregory; Ben Hur and Its Author, President E. A. Schell; Shaping the Sermon, President F. J. McConnell; The Religion of Rudyard Kipling, President Herbert Welch.

College of Liberal Arts

College of Liberal Arts

THE College of Liberal Arts, the first school of the University to be organized, was opened to students on November 5, 1855. The courses of study are designed to afford a broad and liberal culture without direct reference to a professional career, though forming a valuable preparation for such a career and for the highest effectiveness in business and administrative occupations. The curriculum leads to the degree of Bachelor of Arts or Bachelor of Science. Courses are offered in advance of those open to the ordinary undergraduate and lead to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy, in the Graduate School.

The site of the College of Liberal Arts is Evanston, twelve miles north from the business center of Chicago. The University charter contains a prohibition of saloons within four miles of the campus and the law is enforced. The city is situated on Lake Michigan, is distinguished for its wealth, its beauty, and its public spirit, and possesses the academic charm that makes it an ideal college town.

The campus extends for three-quarters of a mile along the shore of the lake, and is bordered by Sheridan Road on the west and south. On the main campus, besides the College of Liberal Arts, are the College of Engineering, the Library, Garrett Biblical Institute, Evanston Academy, the School of Oratory and the United States Life Saving Station. On Willard Hall campus are the School of Music and the women's dormitories.

The College is fortunate in its environment. Students have access to churches, lectures, and concerts in Evanston and Chicago that supplement in a broad and stimulating way the instruction of the class room.

The educational aim of the College is to bring student and instructor together into intellectual association and co-operation, and to provide such facilities for the student as will enable him to make the most of his time and energy. In numbers, the College ranks among the largest but it cherishes the responsibility of the faculty to the individual student.

Combined courses of study permit the prospective student of medicine, law, or theology to attain his professional degree in a minimum of time.

Abram Winegardner Harris, Sc.D., LL.D.
President

Daniel Bonbright, A.M., LL.D.
Dean Emeritus

Thomas Franklin Holgate, Ph.D., LL.D.
Dean of the College

Daniel Bonbright, A.M., LL.D.
John Evans Professor of Latin Language and Literature

Herbert Franklin Fisk, D.D., LL.D.
Professor of Education

Robert McLean Cumnock, A.M., L.H.D.
Professor of Rhetoric and Elocution

Abram Van Epps Young, Ph.B.
Professor of Chemistry

James Taft Hatfield, Ph.D.
Professor of German Language and Literature

Charles Beach Atwell, Ph.M.
Professor of Botany

Henry Crew, Ph.D.
Fayerweather Professor of Physics

*J. Scott Clark, A.M., Litt.D.
Professor of English Language

Peter Christian Lutkin, Mus.D., A.G.O.
Professor of Music

George Albert Coe, Ph.D., LL.D.
Honorary Professor of the Philosophy and Psychology of Religion

Thomas Franklin Holgate, Ph.D., LL.D.
Henry S. Noyes Professor of Mathematics

William Albert Locy, Ph.D., Sc.D.
Professor of Zoölogy

George Oliver Curme, A.M., Litt.D.
Professor of Germanic Philology

James Alton James, Ph.D.
Professor of History

Edouard Paul Baillot, L.H.D.
Professor of Romance Languages

*Deceased, December 28, 1911.

Amos Williams Patten, A.M., D.D.
Professor of Biblical Instruction

Ulysses Sherman Grant, Ph.D.
William Deering Professor of Geology

John Adams Scott, Ph.D.
Professor of Greek Language and Literature

Arthur Charles Lewis Brown, Ph.D.
Professor of English Literature

Norman Dwight Harris, Ph.D.
Professor of European Diplomatic History

Walter Dill Scott, Ph.D.
Professor of Psychology

Mary Ross Potter, A.M.
Dean of Women

Willard Eugene Hotchkiss, Ph.D.
Professor of Economics

David Raymond Curtiss, Ph.D.
Professor of Mathematics

Philip Fox, M.S.
Professor of Astronomy and Director of Dearborn Observatory

Omera Floyd Long, Ph.D.
Professor of Latin

Walter Lichtenstein, Ph.D.
Librarian

Charles Edward Hammett
Director of Physical Training

Murray Shipman Wildman, Ph.D.
Acting Professor of Economics

Robert Richardson Tatnall, Ph.D.
Associate Professor of Physics

Roy Caston Flickinger, Ph.D.
Associate Professor of Greek; Secretary of the Faculty

Walter Libby, Ph.D.
Assistant Professor of Education

Earl Dean Howard, Ph.D.
Assistant Professor of Economics

Murray Arnold Hines, Ph.D.
Assistant Professor of Chemistry

Georg Edward
Assistant Professor of German

George Rogers Mansfield, Ph.D.
Assistant Professor of Geology

Robert Edward Wilson, Ph.M.
Assistant Professor of Mathematics

Eugene Howard Harper, Ph.D.
Assistant Professor of Zoölogy

Alphonso de Salvio, Ph.D.
Assistant Professor of Romance Languages

*James Caddall Morehead, Ph.D.
Assistant Professor of Mathematics

Frederick Shipp Deibler, Ph.D.
Assistant Professor of Economics

Arthur Guy Terry, Ph.D.
Assistant Professor of History

Andrew Runni Anderson, Ph.D.
Assistant Professor of Latin

Horace Craig Longwell, Ph.D.
Assistant Professor of Philosophy

Axel Louis Elmquist, A.M.
Assistant Professor of Scandinavian Languages

Franklyn Bliss Snyder, Ph.D.
Assistant Professor of English Literature

Robert Harvey Gault, Ph.D.
Assistant Professor of Psychology

Ezra Breckenridge Crooks, Ph.D.
Assistant Professor of Philosophy

Stella Skinner
University Guild Lecturer on the Principles of Art

William Hawes Coghill, E.M.
Instructor in Mining and Metallurgy

Walter Edward Roloff, A.M.
Instructor in German

Edgar White Burrill, A.M.
Instructor in English Language

Winford Lee Lewis, Ph.D.
Instructor in Chemistry

James Lawrence Lardner, A.M.
Instructor in Elocution and Debate

William Vipond Pooley, Ph.D.
Instructor in History

*Resigned February 1, 1912.

William Logan Woodburn, A.M.
Instructor in Botany

George Thomas Hargitt, Ph.D.
Instructor in Zoölogy

Charles Edward Brooks, Ph.D.
Instructor in Mathematics

Charles Edward Persons, A.M.
Instructor in Economics

Victor J. West, Ph.B.
Instructor in Politics

William Frank Bryan, A.M.
Instructor in English Language

Bird Mabel Arnold
Instructor in Physical Training

Ronald Salmon Crane, Ph.D.
Instructor in English Language

Leon Irwin Shaw, Ph.D.
Instructor in Chemistry

Louis Baker, A.M.
Instructor in German

Robert Grant Martin, Ph.D.
Instructor in English Literature

Gaston Pieyre, Lic. ès. Lett.
Instructor in French

George Vest McCauley, Ph.D.
Instructor in Physics

Herbert King Stone, A. M.
Instructor in French

Chester Henry Yeaton, A.M.
Instructor in Mathematics

Gino Arthur Ratti, Ph.D.
Instructor in French

Pinckney Freeman Smith, A.M.
Instructor in English Language

Clarence Stephen Marsh, A.B.
Registrar

Elton James Moulton, A.M.
Instructor in Mathematics

George Bion Denton, A.M.
Instructor in English Language

Samuel Orace Dunn
Lecturer on Transportation

Albert Mynard Walker
Topographic Engineer on the United States Geological Survey; Special Lecturer

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Thomas Robinson
Assistant in Physical Training

Joseph William Hake, A.B.
Assistant in Physics

Lewis Omer, B.S.
Assistant in Physical Training

Lydia Leichsenring
Assistant in the Gymnasium

Helen Bock Holden, Ph.B.
Reader in English Language

John Rees Davies, B.S.
Assistant in Chemistry

John Frederick Hallwachs, A.B.
Assistant in Latin

John Nicholas Keller
Assistant in the Gymnasium

Roy Young
Assistant in Athletics

Douglass Montgomery Johnson, B.S.
Assistant in Athletics

John Wesley Merritt, B.S.
Assistant in Mineralogy

Irene Henderson, B.S.
Reader in English Literature

Milton Walker Eddy, B.S.
Assistant in Vertebrate Zoölogy

Aaron James Little, B.S.
Assistant in Mathematics

Willis Stanley Gibson, A.B.
Demonstrator in Anatomy

Lloyd Clinton Holsinger, A.M.
Assistant in Athletics

Standing Committees of the Faculty

Administration—Professors Locy, Atwell, Fox, Young; the Dean, *ex officio.*

Undergraduate Study—Professors Young, Curtiss, Deibler, Grant, Hatfield, Long.

Library—Professors Lichtenstein, Bonbright, Brown, Crew, Hatfield, James, Locy, de Salvio, J. A. Scott, Young.

Registration and Special Students—Professors Flickinger, Edward, Snyder, Mr. Coghill; the Registrar, *ex officio.*

Delinquent Students—Professors Curtiss, Anderson, Curme, Fox, W. D. Scott.

Advanced Standing—Professor Grant, Mr. Bryan; the Registrar, *ex officio.*

Honors and Distinctions—Professors Crew, Brown, Howard, Libby, Dr. Martin; the Registrar, *ex officio.*

Admission Requirements—Professors Brown, Curme, Elmquist, Harper, Libby, Morehead, Mr. Stone.

Board of Examiners—Professor Tatnall, Mr. Burrill, Dr. Lewis, Professor Morehead, Dr. Pooley, Dr. Ratti.

Fellowships and Graduate Scholarships—Professors James, Baillot, Crew, Grant, Hotchkiss, Locy, Long.

Undergraduate Scholarships—Professors W. D. Scott, Mansfield, Wilson, Mr. Baker, Mr. Bryan.

Commencement Speakers—Professors Clark, Harris, Hotchkiss, Mansfield.

Lower Class Advisers—Professors Anderson, Atwell, Curtiss, Deibler, Elmquist, Flickinger, Gault, Hines, Longwell, Mansfield, de Salvio, Snyder, Terry, Mr. Bryan, Mr. Roloff; the Dean, and the Registrar, *ex officio.*

Accredited Schools—Professors Libby, Clark, Gault, W. D. Scott, Mr. Marsh, Dr. Pooley, Mr. West.

Chapel and Religious Organizations—Professors Patten, Crooks, Flickinger.

Loan Funds—Professors Fisk, Atwell, Curtiss, Patten.

Social Life of Students—Miss Potter, Professors Holgate, Terry, Mr. Hammett, Mr. Lardner.

Gymnasium and Physical Training—Professors Wilson, Crooks, Deibler, Fox, James; the Physical Director, *ex officio.*

Student Enterprises and Organizations—Professors Deibler, Hines, Longwell, Mansfield, Terry, Dr. McCauley, Mr. Woodburn.

Appointments—Professors Atwell, Howard, Wilson, Mr. Roloff.

Intercollegiate Debate and Oratory—Professors Harris, Crooks, Hotchkiss, Mr. Burrill, Mr. Lardner, Mr. Persons (Mr. Lardner, Acting Chairman).

Interscholastic Declamation Contests—Professors Flickinger, Elmquist, Mr. Burrill, Mr. Lardner, Mr. Pieyre.

Health of Students—Professor Fox, Miss Potter, Miss Arnold, Mr. Hammett, Dr. Lewis, Mr. Smith.

Residences for Women—Miss Potter, Miss Arnold, Miss Skinner.

Residences for Men—Professors Hatfield, Harris, Wildman, Mr. Hammett, Mr. Yeaton.

Rhodes Scholarships—Professors J. A. Scott, Anderson, de Salvio, Dr. Brooks, Dr. Martin.

Summer Courses—Professors Gault, de Salvio, Snyder, Wilson, Dr. Lewis.

Public Functions—Professors Long, Baillot, Hines, W. D. Scott, Snyder, Terry, Dr. Crane, Dr. Hargitt, Dr. Shaw, Mr. West.

Requirements for Admission

Candidates for admission to the College of Liberal Arts must be at least sixteen years of age, and must qualify by examination or by certificate on fifteen units of high school work. The unit is a course of study requiring a daily recitation on a prepared topic for a full school year, and covering in the various subjects the work defined in the paragraphs below.

A candidate may be admitted to college as a regular student at the beginning of the year with not more than two units of condition, but all entrance conditions must be made up during the first year of residence. No certificate for entrance credit will be accepted nor examination allowed after the expiration of one year.

EXAMINATIONS FOR ADMISSION

Regular examinations for admission to the College of Liberal Arts are held on the first Monday and Tuesday of the college year. The dates for the year 1912 are September 23 and 24. Candidates may be examined and admitted at other times if prepared to enter classes at an advanced point in the regular courses, but they are advised to enter at the beginning of the college year. Applications for examinations must be made to the Registrar at least one week before the beginning of the college year.

The Board of Examiners will accept, in lieu of its own examinations, those conducted by the College Entrance Examination Board. This Board holds examinations in June in Northwestern University Building, Chicago.

ADMISSION BY CERTIFICATE

Students from an accredited high school or academy may be admitted to college on certificate without examination, provided they present themselves for admission not later than a year and three months after graduation. In case the preparation of a student admitted on certificate is found in the first semester to be unsatisfactory, he will be required to complete his preparation in a fitting-school or in such other way as may be determined.

Blank forms for certificates may be had on application to the Registrar, and should be returned to him, properly filled out, at least one week before the opening of the college year.

SUBJECTS WHICH MAY BE PRESENTED FOR ADMISSION CREDIT

The subjects which may be presented for admission credit and the number of units acceptable in each are shown in the following table. English, three units; algebra, one or one and a half units; and plane geometry, one unit, are required of all candidates. A choice is allowed in the selection of other subjects, but at least four units of foreign languages must be presented. These may be four units of Latin, or three units of one language and one unit of another, or two units of each of two languages. A single unit of any language will be accepted only when accompanied by at least three units of some other language or two units of each of two others. The remaining work may be selected at will from the subjects listed.

The first three subjects in the amounts indicated are required of all candidates.

English	3	units	Zoölogy	1	unit
Algebra	1 or 1½	units	Chemistry	1	unit
Plane Geometry	1	unit	Ancient History	1	unit
			Mediaeval and Modern History	1	unit
Latin	2, 3 or 4	units	English History	1	unit
Greek	2 or 3	units	American History (or with Civil Government)	1	unit
German	2 or 3	units	Civil Government	½	unit
French	2 or 3	units	Political Economy	½	unit
Spanish	2	units	Commercial Geography	½	unit
Advanced Algebra	½	unit	Commercial Law	½	unit
Plane Trigonometry	½	unit	Physiology	½	unit
Solid Geometry	½	unit	Subjects not specified	2	units
Physiography	1	unit			
Physics	1	unit			
Botany	1	unit			

Under the heading "Subjects not specified" such topics as manual training, domestic science, mechanical drawing, etc., may be presented at the discretion of the Board of Examiners. Subjects enumerated above as full units may be presented as half units, or they may be presented in excess of the amounts stated, only as "subjects not specified" and such credit is thus limited to two units.

DEFINITIONS OF UNITS

GROUP A—Subjects required of all candidates.

1. *English*—The character and amount of preparation required is indicated in the program which follows, but the arrangement of the work is not prescribed. It is expected that the English work will be distributed over four years of the secondary school course. *Three units.*

(*a*) *Language*—Spelling, punctuation, grammar, paragraphing, the fundamental principles of rhetoric, reading, practice in writing compositions based on the student's personal experience. At least eight exercises of not less than three hundred words each are required. Descriptions of scenes or objects actually witnessed by the writers, narrations based on personal experiences, and arguments on specific questions will be accepted.

(*b*) *Literature*—The following books are to be read. The student should acquire a knowledge of the subject-matter and of the main facts in the lives of the authors, and should practice writing

short compositions on subjects drawn from the reading.

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I. Two to be selected from: Shakespeare's As You Like It, Henry V, Julius Caesar, The Merchant of Venice, Twelfth Night.

II. One to be selected from: Bacon's Essays; Bunyan's The Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography.

III. One to be selected from: Chaucer's Prologue; Selections from Spenser's Faerie Queen; Pope's The Rape of the Lock; Goldsmith's The Deserted Village; Palgrave's Golden Treasury, First Series, Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

IV. Two to be selected from: Goldsmith's The Vicar of Wakefield; Scott's Ivanhoe and Quentin Durward; Hawthorne's The House of the Seven Gables; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; Dickens' A Tale of Two Cities; George Eliot's Silas Marner; Blackmore's Lorna Doone.

V. Two to be selected from Irving's Sketch Book; Irving's Life of Goldsmith; Lamb's Essays of Elia; DeQuincey's Joan of Arc and The English Mail Coach; Carlyle's Heroes and Hero Worship; Emerson's Essays; Ruskin's Sesame and Lilies.

VI. Two to be selected from: Coleridge's The Ancient Mariner; Scott's The Lady of the Lake; Byron's Mazeppa and the Prisoner of Chillon; Palgrave's Golden Treasury, First Series, Book IV, with special attention to Wordsworth, Keats, and Shelley; Macaulay's Lays of Ancient Rome; Poe's Poems; Lowell's The Vision of Sir Launfal; Arnold's Sohrab and Rustum; Longfellow's The Courtship of Miles Standish; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Hervé Riel, Pheidippides.

(*c*) *Literature*—The student is expected to make a thorough study of each of the works named below, accompanied by practice in composition.

1912-1913.

Shakespeare's Macbeth; Milton's Comus, L'Allegro and Il Penseroso; Burke's Speech on Conciliation with America, or Macaulay's Life of Johnson.

2. *Mathematics*—It is recommended that the work in Mathematics be extended over at least three years of the high school course, and especially that work be given in this subject in the last year. A

good arrangement is as follows: first year, five hours a week, algebra; second year, five hours a week, plane geometry; fourth year, five hours a week for the first half-year, solid geometry; second half-year, algebra.

(*a*) *Algebra*—Factoring, common divisors and multiples, fractions, simple equations of one or more unknown quantities, involution, evolution, theory of exponents, and radicals. Special attention should be given to the statement of problems in the form of equations. *One unit.*

(*b*) *Algebra*—A review of the previous work and a thorough study of radicals, equations involving radicals, quadratic equations with one or two unknown quantities, and equations solved as quadratics. *One half unit.*

(*c*) *Plane Geometry*—A course equivalent to that contained in Holgate's Geometry, with the solution of a large number of exercises and numerical problems. *One unit.*

Group B—Foreign Languages

Candidates must present four units of Foreign Languages and they are advised to present at least two units of credit in Latin. A single unit of a foreign language will be accepted for entrance credit only when accompanied by at least three units of some other language or two units of each of two others.

6. *Greek* (*a*)—Grammar, White's First Greek Book, or an equivalent. *One unit.*

7. *Greek* (*b*)—Xenophon's Anabasis, Books I, II, and III; Jones' Greek Prose Composition, or an equivalent, thirty lessons. *One unit.*

8. *Greek* (*c*)—Anabasis Book IV; Prose Composition, lessons thirty to forty; Homer, Iliad, or Odyssey, 1,800 lines. *One unit.*

9. *Latin* (*a*)—Grammar; Cæsar's Gallic War, ten pages, or twenty pages of Viri Romæ, with retranslation of English into Latin. *One unit.*

10. *Latin* (*b*)—Cæsar's Gallic War, four Books, completed; Latin Composition. *One unit.*

11. *Latin* (*c*)—Cicero, six orations, including the Manilian Law; Latin Composition. *One unit.*

12. *Latin* (*d*)—Virgil, six books of the Aeneid. It is desired that the student's acquaintance with Virgil should not be limited to

the requirement. By private reading, and by sight reading in class, the Bucolics and a considerable portion of the Aeneid may with advantage be added to the amount prescribed. *One unit.*

13. *French* (*a*)—Correct pronunciation; elementary grammar, with exercises, including the irregular verbs; the reading of from one hundred and fifty to two hundred pages of easy French prose. *One unit.*

14. *French* (*b*)—Elementary grammar completed; easy composition, based on one of the works read; the reading of two hundred and fifty to three hundred pages of French prose. *One unit.*

15. *French* (*c*)—Study of the difficulties of French syntax and idioms; translation into French from text-book and easy original compositions; the reading of not less than six hundred pages of at least five standard authors; ability to take grammatical dictations and to understand and answer questions in French. *One unit.*

16. *German* (*a*)—Pronunciation; the memorizing of easy colloquial sentences; the rudiments of grammar, inflection of the articles, ordinary nouns, adjectives, pronouns, weak verbs, and the more usual strong verbs; the use of the more common prepositions; the simpler uses of modal auxiliaries and the elementary rules of syntax and word-order; abundant easy exercises; the reading of from seventy-five to one hundred pages of graduated texts. *One unit.*

17. *German* (*b*)—The reading of from one hundred and fifty to two hundred pages of literature in the form of easy stories and plays; translation into German of matter based on works read; continued drill upon rudiments of grammar. *One unit.*

18. *German* (*c*)—The reading of about four hundred pages of moderately difficult prose and poetry; translation into German; grammatical drill on the less usual strong verbs; the use of articles, cases, auxiliaries, tenses and modes, word-order and word-formation. *One unit.*

19. *Spanish* (*a*)—Correct pronunciation; the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs; sufficient translation from English into Spanish to illustrate the principles of grammar; the reading of from one hundred and fifty to two hundred duo-decimo pages of graduated texts. *One unit.*

20. *Spanish* (b)—Continued study of grammar and syntax; mastery of the irregular verbs and the use of modes and tenses; advanced composition; the reading of from three hundred to four hun-

dred pages of modern prose from different authors illustrating the tendencies of modern Spanish literature; a unified knowledge of Spanish literature of the nineteenth century. *One unit.*

Group c—Elective Subjects

21. *Mathematics.* (*a*)—*Algebra,* including ratio and proportion, variation, progressions, permutations and combinations, binomial theorem, logarithms and their application to interest and annuities, introduction to determinants, theory of equations and series. *One-half unit.*

(*b*) *Plane Trigonometry,* including the solution of oblique triangles. Consistent employment of ratio definitions of the trigonometric functions and ability to verify numerical computations are expected. *One-half unit.*

(*c*) *Solid Geometry,* a course equivalent to that contained in Holgate's Elementary Geometry, including numerous exercises and problems. *One-half unit.*

22. *Physiography*—The earth as a planet, the atmosphere, the climate, the ocean, and the land. Emphasis should be placed especially on the topographic features of the land, their origin and significance. Some recent text-book should form the basis for the course, and it should be supplemented by laboratory work. *One unit.*

23. *Physics*—A course equivalent to that contained in Millikan and Gale's First Course in Physics. The candidate must present evidence of familiarity with the general principles of physical science, especially the simpler principles and phenomena which are constantly illustrated in daily life, such as the pendulum, hydrostatics, water waves, pitch and intensity of sound, heat conduction, boiling, freezing, simple lenses, mirrors, prisms, magnets, lines of force, voltaic cells, galvanometers. It is also required that a course of laboratory work shall have been pursued in connection with the text-book, equivalent to at least forty exercises from Crew and Tatnall's Laboratory Manual of Physics, and that accurate notes descriptive of the experiments shall have been kept. *One unit.*

24. *Botany*—The study of plants as living organisms, with special regard to function, structure, and relation to environment. Each recitation or quiz period should be preceded by two hours of laboratory work. Atkinson's Lessons in Botany and Bergen's Foundations of Botany are satisfactory texts. Each pupil should perform the ex-

periments and demonstrations for himself and should keep a neat and accurate notebook showing the work done and the conclusions reached. *One unit.*

25. *Zoölogy*—The study for one year of animal structure, habits, and general life history by the laboratory method under a competent teacher will be accepted as a full unit of credit. Linville and Kelley's General Zoölogy, Kellogg's Elementary Zoölogy, and Animal Studies by Jordan, Kellogg, and Heath are among the text-books approved. Emphasis should be placed on training in observation, in accuracy in drawing and in expression in the note-books. *One unit.*

26. *Chemistry*—Laboratory work should be made an essential feature of the study, and may well take one-half of the total time assignment. Careful and systematic notes of his individual work should be made by the student. Quantitative experiments are recommended both for training and in order to illustrate the fundamental laws. Purely descriptive work should be limited to comparatively few elements and compounds. *One unit.*

27. *Ancient History*—A study of the history of Greece and Rome. West's Ancient History, or Botsford's Greece and Rome, or an equivalent, with supplementary reading. *One unit.*

28. *Mediaeval and Modern European History* —Meyers' Mediæval and Modern History, or an equivalent, with supplementary reading. *One unit.*

29. *English History*—A study of the political and constitutional development of England. Larned's English History or an equivalent. *One unit.*

30. *American History*—Channing's Students' History of the United States, or an equivalent. *One unit,* or with Civil Government, *one unit.*

31. *Civil Government*—James and Sanford's Government in State and Nation, or an equivalent. *One-half unit.*

32. *Political Economy*—Thurston's Economics and Industrial History, or an equivalent. *One-half unit.*

33. *Commercial Geography*—A comparative study of the resources, transportation facilities, and general commercial advantages of the nations of the world, particularly of the United States and of America as a whole; the effect on production and commerce of surface, soil and climate, race, religion, education and commercial policies, means of transportation and communication, and general eco-

nomic forces. This course should be preceded by Physical Geography. *One-half unit.*

34. *Commercial Law*—Legal principles governing contracts, sales, bills, notes, interest and usury, agency, partnership, corporations, leases, property ownership, deeds, mortgages, liens, attachments, surety and guarantyship, bailments, common carriers, banking, fire insurance; practice in drawing all the commoner kinds of legal papers. *One-half unit.*

35. *Physiology*—A detailed study of the structure and composition of the human body, the physiology of cells and the various tissues, fluids, nervous systems, organs of special sense, etc.; laboratory work in dissection of speciments and practice in making drawings; nutrition and growth; personal hygiene and sanitation. *One-half unit.*

ADMISSION AS SPECIAL STUDENTS

On the recommendation of the Committee on Registration and Special Students, persons of serious purpose and mature years may be admitted to college as special students to pursue selected studies. Applications for such admission must be accompanied by evidence of qualification to carry on the proposed work to advantage, but no persons will be so admitted for courses which might be pursued in a secondary school. In general, special students are expected to meet the full entrance requirements.

ADVANCED STANDING

Students from other colleges seeking admission to this college must present evidence of honorable dismissal from the institution last attended and must present certificates showing (1) a full record of the applicant's preparation for college, (2) his college record subject by subject with the grade obtained in each subject and the year of the course in which it was taken. He should submit a catalogue of his college bearing his name and of the issue current at the time of his admission to that college. Students from other colleges must first meet the entrance requirements to this College, after which the amount of advanced credit to be obtained by certificate will be estimated by a committee of the Faculty, but will not be placed to his credit till the student has been in residence in this college for one semester. Advanced credit without examination will be given only for work done in an approved college. Claims for advanced credit must be made during the first year of residence and not later than

September of the collegiate year in which the candidate expects to graduate.

College credit for work done in a secondary school in excess of the requirements for admission, can be given only on examination provided through the Registrar's office, and on the basis of five semester hours of credit for one unit of work. An exception to the examination rule is made in foreign language subjects continued in college during the first year, where the subsequent work is a sufficient test of the quality of earlier work. Applications for such credit and for examinations must be made to the Registrar during the first semester of residence and the examinations must be taken at one of the regular dates set; viz.: the Wednesday of the opening week in September, the Saturday following the regular examinations in February, and the Monday following Easter. Advanced credit can be allowed only in mathematics, foreign languages, and such other subjects taken in the last year of the secondary school course as may be approved by the Committee on Advanced Standing. No examination for advanced credit will be allowed after the first year of residence nor in subjects foreign to the college curriculum.

ACCREDITED SCHOOLS

High schools and academies are placed on the accredited list of the University by action of the Faculty, upon the recommendation of the Committee on Accredited Schools. This relation implies that the certificates of the school properly attested will be accepted at their face value toward meeting the requirements for admission. Graduation from an accredited school is not in itself evidence of qualification for admission.

Superintendents or principals desiring to have their schools placed on the accredited list should make application to the Chairman of the Committee on Accredited Schools, who will provide for a proper inspection. The letter of application should give the names of all teachers, with a statement of their preparation and of their experience as teachers; a careful statement of the methods pursued in teaching mathematics, languages, and sciences; the amount and kind of scientific apparatus and the library facilities accessible to students. The letter should be accompanied by the latest printed catalogue or annual report of the school, containing an outline of the course of study and a list of the text-books used.

The schools which are placed on the accredited list will continue to be accredited for three years, unless the Faculty within this period

becomes satisfied that changes have occurred making further inspection desirable.

Undergraduate Studies

The courses of study offered in the College of Liberal Arts are listed under the several department headings beginning on page 111. They are for the most part elective, but certain courses shown in the schedules below are required of all candidates for a degree.

The prescribed courses are intended to secure to the student breadth of culture and to bring him into contact with the main divisions of modern study. To prevent him from scattering his energies unduly, on the other hand, and to ensure a fair degree of continuity in at least one department and to a less degree also in a second, the student is required at a date not later than the beginning of the third year of residence, to announce a department in which he proposes to do major work, and a department in which he will do minor work. The courses constituting a major and a minor in the several departments are stated under the department headings in the descriptions of courses.

Students are advised to give careful thought to the plan of their elective work and to the selection of their major subject as early as the beginning of the second year.

The credit assigned to a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one semester. As a condition of graduation, a student must complete one hundred and twenty semester hours of work, including the prescribed courses,—this being the equivalent of fifteen class exercises a week for four years.

In making up his program of studies for any year the student must give precedence to prescribed courses and in the order in which they are designated in the schedules. Except by special permission of the Committee on Registration, he must take in addition to the prescribed courses for which he is due, elective work sufficient to make a total of fifteen class exercises a week.

Courses for First Year Students

First year students are required to register for English Language, mathematics, one foreign language, and a second foreign language or a science. Elective studies, if any, must be confined to the following list of courses, with the provision, however, that a student properly

qualified may enter a more advanced course in any of the departments named.

Biblical Literature A
Botany A and AB
Chemistry A
Elocution A
English Language A
French AA, AB, and A
Geology A2
German AA, AB, and A
Greek AA, AB, and A
History A, E, and H
Latin A
Mathematics A1, A2, A3, A4, and A5
Physics A
Zoölogy A

First year students are required to take physical exercise three hours a week under the direction of the department of Physical Training. Women students during their first semester of residence are required to attend a course of lectures by the Dean of Women on matters affecting their college life. Attendance on these releases the student from one hour a week of physical training.

COURSES PRESCRIBED FOR THE DEGREE OF BACHELOR OF ARTS

I.	Mathematics A1 (See note below)	3 hours	1st year
II.	English Language A	3 hours	1st year
III.	Two of the following, of which one must be chosen from the first two named: Latin A, Greek A, French A, German A ..... each [*Note*—If French or German is chosen, one course in that language as advanced as Course A must be taken in college.]	3 hours	1st year
IV.	English Literature AA or AB ...	2 hours	2nd year
V.	One of the following: Physics A, Chemistry A, Zoölogy A, Botany A or AB, Geology A1, A2, or A3, Astronomy A1 and A2	4 hours	2nd year
VI.	One of the following: History A, E, H, or BC, Economics A, Philosophy A1 or A2, Psychology A1, and A2 or A3.....	3 hours	2nd year

Note—Mathematics A3, five hours, may be substituted for Mathematics A1. Students who complete an ancient language course enumerated in Sect. III. above, or a science course enumerated in Sect. V. above, in addition to the courses required, are released from Mathematics A1.

Courses Prescribed for the Degree of Bachelor of Science

I.	Mathematics A1 ..... [*Note*—Mathematics A3, five hours, may be substituted for this course.]	3 hours	1st year
II.	English Language A	3 hours	1st year
III.	French A and German A. (See note below) ..... each	3 hours	1st or 2nd year
IV.	English Literature AA or AB	2 hours	2nd year
V.	Two of the following: Physics A, Chemistry A, Zoölogy A, Botany A or AB, Geology A1, A2, or A3, Astronomy A1 and A2 each	4 hours	1st or 2nd year
VI.	One of the following: History A, E, H, or BC, Economics A, Philosophy A1 or A2, Psychology A1, and A2 or A3	3 hours	2nd year

Note—If French or German is presented for admission, the requirement of college courses is reduced accordingly, except that in all cases a course as advanced as Course A in at least one of these languages must be taken in College. Candidates who present two units of Latin or two units of Greek for admission may omit in College the A-course, but not the AA-course, in either French or German; and candidates who present three units of Latin or three units of Greek for admission may omit in College both the A-course and the AA-course in either French or German, but not in both.

FACULTY ADVISERS

Each undergraduate student on entering College is assigned to a member of the Faculty who is to act as his adviser and give him helpful counsel relating to his college life. At the beginning of the third year when the student makes choice of the department in which he will do major work, the instructor under whom he takes his principal courses becomes his adviser and should be consulted freely on all matters relating to subsequent registrations. The student is required to submit his choice of studies for each year to his adviser and obtain approval of the same before completing his registration; all changes in registration during the year must likewise receive the adviser's approval.

Courses of Instruction

The following pages give the list of courses offered in the College of Liberal Arts for the year 1911-1912. For completeness, courses offered in alternate years are included, but courses not offered in 1911-1912 are marked with an asterisk (*).

The courses in the various departments are divided into four groups: (1) courses which may be entered without prerequisite in the department or with such preparation as was presented for admission to college; (2) courses which may be taken only after or concurrently with an introductory course, or after the completion of approximately sixty hours of credit; (3) courses which may be taken only after or concurrently with a course of the second group, or after the completion of approximately ninety hours of credit; (4) courses which may be taken only after or concurrently with a course of the third group.

The number of semester hours of credit which a course bears toward meeting the requirement for graduation is indicated in general by the number of class exercises a week for each semester, two hours of laboratory work counting as one hour of credit. Exceptions to this are indicated in the descriptions of courses. A course not elected in any year by as many as five persons may be withdrawn at the option of the Faculty.

Astronomy

PROFESSOR FOX

A1. *Descriptive Astronomy*—A general course in Astronomy. Open to students who have a credit of thirty semester hours, including Mathematics A1 or A3. *Credit, four semester hours.* First semester. Mon., Wed., Fri., 2; one evening a week at the Observatory.

A2. *Spherical and Practical Astronomy*—A study of the elements of practical astronomy, its problems and the methods of solution. Practice in observing and in the reduction of observations. Open to students who have completed Course A1. *Credit, four semester hours.* Second semester. Wed., Fri., 2; two evenings a week at the Observatory.

C1. *Astrophysics*—A lecture course on the methods and results of the application of physical instruments, the spectroscope, photometer, bolometer, etc., in astronomy. Prerequisite, Course A1 and Physics B2. First semester, Mon., Wed., Fri., 3.

C2. *Introduction to Celestial Mechanics*—Prerequisites, Mathematics B1 and Physics B1. Second semester. Mon., Wed., Fri., 3.

Biblical Literature

PROFESSOR PATTEN

MAJOR: Course A and seven additional year-hours, including Course E. MINOR: Course A and four additional year-hours.

A. *Introduction to the Study of the English Bible*—First semester—Transmission of the text; genuineness; authenticity; canon. Reading of selected books of the Bible, with geographical and historical background. The evolution of the English Bible with study of the great English versions. Lectures, required readings. Text: American Revision. Second semester—The Bible and English Literature. The English of the Bible. The English Bible as Literature. Lectures. Text: American Revision and Moulton's Modern Reader's Bible. Open to all students. Mon., Wed., Fri., 2. Professor Patten.

B. *The Kingdom of God*—A survey of the "Kingdom of God" in its evolution throughout the Old and New Testaments. First semester—The kingdom of God as set forth in the prophetic ideals. Second semester—The kingdom as presented in the sayings of Jesus and in the Apostolic Period. Lectures and required readings. Open to students who have completed or are taking Course A, or who have sixty hours of credit. Tu., Th., 2. Professor Patten.

C. *The Beginnings of Christianity*—First semester—Inductive study of the Acts of the Apostles, with the historical background of the primitive church. Text: American Revised Bible, Cambridge Bible. Second semester—The Organization and Spread of Primitive Christianity as illustrated in the Apostolic Letters. Selected Epistles. Text: American Revised Bible, Cambridge Bible. Open to students who have completed Course A or who have sixty hours of credit. Given in alternate years with Course F. Tu., Th., 11. Professor Patten.

D. *The History of Religion*—First semester—A survey and comparison of the principal religions of the world in their rise and development. Text-book with assigned readings and papers. Second semester—Special study of the individual ethnic religions, with emphasis upon their relation to Christianity. Lectures and required readings. Open to students who have sixty hours of credit. Given in alternate years with Course G. Tu., Th., 3. Professor Patten.

*F. *Christian Missions*—First semester—The history of missions. Second semester—Relation of missions to world movements and to the problems of the great cities. Text, lectures and required readings. Illustrated with maps, screen projections and local visitation. Open to students who have sixty hours of credit. Given in alternate years with Course C. Tu., Th., 11. Professor Patten.

*G. *Christian Archaeology*—A survey of the life and art of the early church, as seen in the researches of Christian Archaeology, illustrated with screen projections, original impressions from the monuments and the material in the Bennett Museum of Christian Archaeology. First semester—The archaeology of Christian art. Second semester—The archaeology of Christian life. Given in alternate years with Course D. Open to students who have sixty hours of credit. Tu., Th., 3. Professor Patten.

E. *The History of the Hebrews and Their Relation to the Semitic World.*—First semester—Patriarchal and pre-exilic periods. Second semester—Exilic and post-exilic periods. This course includes a survey of the biblical history in the Old Testament, the Hebrews and their contemporaries, Babylonians, Egyptians, etc., together with the study of modern archaeological exploration in the Orient. Text and lectures. Open to students who have completed two courses in the department or have ninety hours of credit. Mon., Wed., Fri., 3. Professor Patten.

Botany

PROFESSOR ATWELL, MR. WOODBURN, AND ASSISTANTS

MAJOR: Course A or AB and six additional year-hours, including Course C or Course D. MINOR: Course A or AB and three additional year-hours.

Note—Course A or AB must be completed before any other course in the department is taken. Courses B and C or D, may be taken concurrently. Students preparing for work in forestry should take Courses A or AB, B, and C.

A. *Principles of Botany*—The biology and morphology of typical plants selected from the more important natural groups. Ecology and classification receive attention during the months of October and May. Laboratory and field work with quizzes and informal lectures. Open to all students. Credit is not given unless the full year course is completed. *Credit, four year-hours.* Lectures, Section I, Mon., Fri., 2. Section II, Tu., Th., 11. Laboratory, Section I, Tu., Th., 8 to 10; Section II, Tu., Th., 10 to 12; Section III, Tu., Th., 2 to 4; Section IV, Wed., Fri., 8 to 10. Professor Atwell, Mr. Woodburn, and assistants.

AB. *Nature and Development of Plants*—Morphology and Life history of selected group types of plants. Open (1912-13) to those who offer one unit in Botany for admission. *Credit, four year-hours.* Lectures Tu., Th., 8. Laboratory Wed., Fri., 8 to 10. Professor Atwell, Mr. Wooburn, and assistants.

B. *Seed Plants*—Morphology, distribution, and economic uses of the more prominent plant families. Open to students who have completed Course A. *Credit, three year-hours.* Mon., Wed., Fri., 8 to 10. Professor Atwell.

C. *Algae and Fungi, Liverworts, Mosses, and Ferns*—Comparative morphology of lower plant life. Laboratory work, lectures, field work. Books of reference are provided. Open to students who have completed Course B, or may be taken concurrently with Course B. *Credit, three year-hours.* Mon., Wed., Fri., 2 to 4. Mr. Woodburn.

D. *Histology and Physiology of Plants*—First semester—Laboratory work in histological methods. Second semester—Relation of structure to function, and of plants to their environment. Open to students who have completed Course B, or may be taken concurrently with Course B. *Credit, three year-hours.* Mon., Wed., Fri., 10 to 12. Professor Atwell and Mr. Woodburn.

E. *Plant Embryology and Development*—(a) Gymnosperms; (b) Angiosperms. An intensive study of three or four forms as a

basis for more extensive comparison. Attention is given to both morphological and cytological details. Open to students who have completed Course C or D. *Credit, three year-hours.* Mon., Wed., Fri., 10 to 12. Mr. Woodburn.

F. *Cytology of Bryophyta*—Special problems in cytological investigations. Open to students who have completed Course C. Hours to be arranged. Mr. Woodburn.

G. *Special Problems in the Development of Seed Plants*—Problems involving original work, assigned to suit the needs of individuals. Open to students who have completed the major requirement. *Credit, three to five year-hours.* Hours to be arranged. Professor Atwell.

Chemistry

PROFESSOR YOUNG, PROFESSOR HINES, DR. LEWIS, AND DR. SHAW

MAJOR: Courses A, B1, B2, and C. MINOR: Courses A, B1, and B2.

A. *General Chemistry, Elementary*—Text and laboratory work. Those who have had a course in elementary Chemistry, but not sufficient to qualify for Course B, may, by taking Section II, have the laboratory work modified so as to avoid unnecessary repetition of work already done. Credit is not given unless the full year course is completed. Open without prerequisite. *Credit, four year-hours.* Section I, Class-work, Tu., Th., 1:30 to 2:30; laboratory, Tu., Th., 2:30 to 5. Section II, Class-work, Mon., Fri., 1:30 to 2:30; laboratory, Mon., Fri., 2:30 to 5; Section III, Class-work, Tu., Th., 9; laboratory, Tu., Th., 10 to 12:30. Professor Young and Dr. Shaw.

B1. *Qualitative Analysis*—Analysis of complex mixtures accompanied by lectures and quizzes on the theory of solutions, principles of equilibria, mass action, etc. *Credit, four semester hours.* Open to students who have completed Course A or an equivalent. First semester. Lectures, Mon. and Wed. or Fri., 11; laboratory, Mon., Wed., Fri., 1:30 to 4:30. Professor Hines and Mr. Davies.

B2. *Organic Chemistry*—Lectures and quizzes on the hydrocarbons and their derivatives. Laboratory preparation and study of typical organic compounds. Open to students who have completed Courses A and B1 or an equivalent. *Credit, four semester hours.* A half year course given each semester. Lectures, Mon., Wed., Fri., 11; laboratory. First semester, Tu., Th., 1:30 to 4:30.

Second semester, Wed., Fri., 1:30 to 4:30. Dr. Lewis and Mr. Davies.

B3. *Historical Chemistry*—Lectures, required reading, reports, and thesis. Recommended for those expecting to teach Chemistry. Open to students who have completed or are taking Course B1. *Credit, three semester hours.* Second semester. Mon., Wed., Fri., 10. Professor Hines.

B4. *Household Chemistry*—An elementary course in the chemistry of cooking and domestic sanitation. The simpler chemistry of foods and their relative nutritive values. Open to students who have completed Course A or its equivalent. *Credit, three semester hours.* First semester. Mon., Wed., Fri., 10. Dr. Lewis.

C. *Quantitative Analysis*—(a) Gravimetric; (b) Volumetric. This course familiarizes the student with typical analyses, and lays the foundation for all further analytical work. The work will occupy the average student about nine hours a week. Laboratory periods of two or more consecutive hours must be arranged with the instructor. Open to students who have completed Courses B1 and B2, or, by consent of the instructor, to students who are taking those courses. *Credit, three year-hours.* Lectures, Tu., Th., 11; laboratory, seven or more hours a week, to be arranged. Professor Hines.

C3. *Physiological Chemistry*—Preparation and reactions of primary cell constituents. The physical and chemical properties of the three food types: fats, carbohydrates, and proteids. The chemistry of digestion. The isolation of some constituents of tissue. Open to students who have completed Course B2. *Credit, three semester hours.* Second semester. Lectures, Mon., Wed., Fri., 8; laboratory Mon., 1 to 5. Dr. Lewis.

*C4. *Industrial Chemistry*—Lectures on the processes of the chemical arts and industries, including fuels, acid and alkali manufacture, glass, explosives, sugar refining, petroleum, and metallurgy. Open to students who have completed Courses B1 and B2. *Credit, three semester hours.* First semester. Professor Hines.

D. *Sanitary Analysis*—Examination of water, both chemical and bacteriological, analysis of typical food-stuffs, including milk, butter, cheese, syrups, honeys, spices, edible oils and extracts. Open to students who have completed Course C. *Credit, three year-hours.*

Lectures, Tu., Th., 10; laboratory hours, Tu. and Th. mornings. Dr. Lewis.

D3. *Advanced Analytical Chemistry*—Selected topics from the following: (a) Qualitative analysis of commercial products and of substances more complex than those analyzed in Course B; (b) Quantitative analysis. Special methods for analysis of technical materials, ores, etc. Open to students who have completed Course C. *Credit, three year-hours.* Laboratory hours, to be arranged. Professor Hines.

*D5. *Gas Analysis*—Open to students who have completed Course C. *Credit, three semester hours.* First semester. Lectures, Mon., Wed., or Fri., 8. Laboratory hours, seven or more, to be arranged. Professor Hines.

*D6. *Iron and Steel Analysis*—Open to students who have completed Course C. *Credit, three semester hours.* Second semester. Lectures, Mon., Wed., or Fri., 8. Laboratory hours, seven or more, to be arranged. Professor Hines.

D7. *Advanced Organic Chemistry*—The history of some of the greater researches, as those on the sugars, dyes, alkaloids, diazo-compounds, benzine-ring, etc., is reviewed and the chemistry of these substances is studied in detail. Open to students who have completed Course C. *Credit, two year-hours.* Lectures, Tu.. Th., 8. Dr. Lewis.

D9. *Organic Preparations; Organic Analysis*—A laboratory course in the preparation of the more complex organic compounds. Analysis by combustion methods. Open to students who have completed Course C. *Credit, three year-hours.* Laboratory hours, to be arranged. Dr. Lewis.

D11. *Physical Chemistry*—Lectures, quizzes, assigned topics and laboratory. Theories of solution, principles of chemical equilibrium, electrical conductivity, osmosis, the relation of physical properties to chemical composition. Open to students who have completed Course C. *Credit, three year-hours.* Lectures, Mon., Wed., or Fri., 9; laboratory, Wed., 1:30 to 4:30, and three additional hours. Dr. Shaw.

E2. *Topics of Investigation*—Problems involving original research in inorganic or organic chemistry. Open to graduate students. The consent of the instructor is required before registering for this course. Laboratory hours and credit at the option of the instructor.

Classical Languages

PROFESSOR BONBRIGHT, PROFESSOR SCOTT, PROFESSOR LONG, PROFESSOR FLICKINGER, PROFESSOR ANDERSON, PROFESSOR ELMQUIST, AND MR. HALLWACHS

LATIN

MAJÓR: Courses A, B, J, C or D, and E or F. MINOR: Courses A and B.

AB. *Virgil,* The Aeneid, six books. Open to students who have presented three units of Latin for admission. Tu., Wed., Th., Fri., 11. Mr. Hallwachs.

A. *Cicero,* De Senectute; *Livy,* selections amounting to two books; *Terence,* Phormio; *Horace,* Odes, one book. Open to students who have presented four units of entrance Latin. Mon., Wed., Fri., 8, 8, 10, 11; Tu., Th., Sat., 8, 9. Professor Long, Professor Flickinger, Professor Anderson, and Professor Elmquist.

B. *Horace,* Odes, Epodes, and Satires; *Tacitus,* Germania and Agricola. Open to students who have completed Course A. Mon., Wed., Fri., 9, 11. Professor Long and Professor Anderson.

J. *Latin Composition*—Latin writing with discussions and lectures on the Latin language, methods of work, and problems in secondary teaching. Open to students who have completed Course A. Tu., Th., 3. Professor Long.

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*C. *Latin Literature*—Horace, Epistles; Catullus; Prose selection. Open to students who have completed Course B. Mon., Wed., Fri., 10. Given in alternate years with Course D. Professor Bonbright.

D. *Latin Literature*—Poetry—Lyric and Elegiac selections. Horace, Literary Epistles; Quintilian. Open to students who have completed Course B. Mon., Wed., Fri., 10. Given in alternate years with Course C. Professor Bonbright and Professor Flickinger.

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*E. *Dramatic Literature*—Plautus, two Plays; *Satire* and *Epigram,*—Juvenal; Martial. Open to students who have com-

pleted Course C or D. Tu., Th., 11. Given in alternate years with Course F. Professor Bonbright.

F. *Lucretius,* selected readings with interpretation and lectures; *Cicero,* Philosophical selections. Given in alternate years with Course E. Open to students who have completed Course C or D; Tu., Th., 10. Professor Bonbright and Professor Long.

*K. *Caesar, Cicero*—Selections from Caesar's Commentaries; lectures on special phases of the writer's works; assigned topics for reports. Selections from the early orations of Cicero, with study of his rhetorical method and style. Open to students who have completed Course C or D. Intended primarily for students who expect to teach. *Two year-hours.* Tu., Th., 4. Given in alternate years with Course H. Professor Long.

*G. *Graduate Course*—Study of a selected type or period of Latin literary production. Offered to students of advanced preparation. Tu., Th., 10. Professor Anderson.

H. *Virgil*—Bucolics and Georgics; lectures introductory to the study of Virgil and the Roman epic; Aeneid; preparation of papers on assigned topics with lectures. Open to students who have completed Course C or D. Tu., Th., 4. Given in alternate years with Course K. Professor Long.

GREEK

MAJOR: Courses A and B and five additional year-hours. MINOR: Courses A and B.

AA. *Elementary Greek*—A beginning course intended for students who enter college without Greek. Credit will not be given unless the full course is completed. Open to all students who have presented four units of foreign languages for admission. Mon., Tu., Wed., Th., Fri., 9. Professor Scott.

AB. *Intermediate Greek*—Xenophon's Anabasis, Books I, II, III, IV, Thirty Lessons in Greek Composition, Homer's Iliad, three books. Open to students who have completed Course AA, or its equivalent. Mon., Wed., Fri., 11. Professor Flickinger.

A. *Plato's Apology; Lucian; Homer*—Open to students who have completed Course AB, or who have presented three units of Greek for admission. Mon., Wed., Fri., 11. Professor Scott and Professor Anderson.

B. *Greek Drama*—Sophocles' Oedipus Rex; Euripides' Alcestis and Medea; Aristophanes' Frogs. Open to students who have completed Course A or its equivalent. Mon., Wed., Fri., 9. Professor Flickinger.

K. *Greek and Roman Archaeology*—A general introduction to the artistic remains of the Greeks and Romans from the Minoan age to the time of Hadrian. Architecture, sculpture, vases, and coins. May be counted as one year-hour towards a Greek major. Open to students who have a credit of sixty hours or who have completed Latin A or Greek A. Tu., Th., 2. Professor Flickinger.

C. *Greek Literature; Advanced Course*—Selections from Lyric Poets. Hesiod, Herodotus, Demosthenes, Lucian, and Sophocles. Open to students who have completed Course B. Hours to be arranged. Professor Scott and Professor Anderson.

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*G. *Herodotus. Dramatic Poetry*—Open to students who have completed Course C. *Credit, four year-hours.* Given in alternate years with Course H. Time to be arranged. Professor Scott.

H. *Homer and Epic Poetry*—Open to students who have completed Course C. *Credit, four year-hours.* Given in alternate years with Course G. Mon., Wed., Fri., 8. Professor Scott.

Economics, Finance, and Administration

PROFESSOR HOTCHKISS, PROFESSOR DEIBLER, PROFESSOR WILDMAN, PROFESSOR HOWARD, AND MR. PERSONS

MAJOR: Course A and seven additional year-hours, which must include at least two year-hours more advanced than the courses of the B-group. MINOR: Course A and three additional year-hours.

A. *The Elements of Economics*—An elementary course in the principles of economics. First semester. An examination of the fundamental principles of economics. Second semester. Application of these principles to practical problems. Throughout the course special attention is given to the relation between theory and practice. Open to students who have thirty semester-hours of credit. Mon., Wed., Fri., 9, 10; Tu., Th., Sat., 8. Professor Deibler, Professor Wildman, and Mr. Persons.

B1. *Economic History*—First semester—the general outlines of the economic history of England. Second semester—the study of the economic history of the United States, with due emphasis on present economic problems. Open to students who have completed Course A. Mon., Wed., Fri., 2. Mr. Persons.

B2. *The Labor Question in Europe and America*—The economic and social conditions of the working classes in Europe and the United States. Factory legislation. Growth of labor organizations; strikes and lock-outs; the open and the closed shop; collective bargaining; state regulation of labor disputes, recent laws and judicial decisions. Open to students who have completed Course A. Mon., Wed., Fri., 8. Professor Deibler.

B3. *Transportation*—The historical development of transportation in the United States; railway organization, management, consolidation and control; railway finance and rate making; state and federal legislation; the work of the Interstate Commerce Commission. Johnson's American Railway Transportation and Ripley's Railway Problems. Open to students who have completed Course A. Mon., Wed., Fri., 11. Mr. Persons.

B4. *Sociology, Socialism, and Social Reform*—The general principles of social evolution and progress, with particular reference to social laws. A critical study of the principles of socialism and the socialistic movement. The single tax, co-operation and profit-sharing. Text-books, assigned readings and discussions. Open to students who have completed Course A. Tu., Th., 11. Professor Deibler, and Mr. Persons.

B5. *Present Day Social Problems*—Social problems of the present day, characteristic of congested industrial centers. Poverty, its causes and effects; the sphere of the state and of private individuals and organizations in promoting wholesome social conditions; the interpretation of activities for social betterment with reference to standards of social justice. Prerequisite, Course A, or sixty hours of credit, including one course in either Philosophy or History. Tu., Th., 3. Professor Hotchkiss.

B6. *Administration*—Comparative administrative law and practice designed to familiarize the student with the actual working of administrative machinery in the leading modern states; municipal government and administration. Text: Ashley's Local and Central Government; other books to be announced. Open to students who have completed Course A. Tu., Th., Sat., 9. Professor Hotchkiss.

*B7. *Resources and Foreign Trade of the United States*—Resources as the basis of industrial development. Comparison between the resources of the United States and those of foreign countries. Methods and processes by which resources have been developed. Restoration, conservation, and economical utilization of resources. Distribution of population in relation to resources and to the development of industries and markets. Open to students who have completed Course A. Tu., Th., 9, and a third hour, to be arranged. Professor Hotchkiss.

B8. *Social and Economic Field Work*—Students in the department who have completed Course A will be permitted, at the discretion of the instructor, to investigate and report upon certain social and industrial institutions in the neighborhood of Chicago. Work of this nature to receive credit must be additional to the work required for special reports in other courses. Time to be arranged. Professor Deibler and other members of the department.

C1. *Relation of Government to Industry*—History of government regulation. Regulation to stimulate production—the mercantile school, abandonment of mercantilism—*laissez faire*. Decline of *Laissez Faire* School. Regulation to benefit workers and consumers. Regulation and public policy. The police power. Administration of regulative measures. American compared with foreign practice. Regulation by commission. Specific regulative measures. Service functions of government. Open to students who have completed or are taking a B-Course. Tu., Th., 10. Professor Hotchkiss.

C2. *Public Finance and Taxation*—A comparative study of the budget systems in the leading countries. Special attention is given to existing methods of levying and collecting taxes, federal, state, and local; principles of taxation. Text-books, assigned reading and discussions. Open to students who have completed or are taking a B-Course. Tu., Th., 10. Professor Deibler and Mr. Persons.

C3. *Money, Banking and Corporation Finance*—Money and instruments of credit; banks and their functions; the currency problem. Legal aspects of corporations. The methods of promotion, capitalization, and underwriting, the various forms of stocks and bonds, their values, methods of marketing through stock exchanges and otherwise. Texts: Howard, Money and Banking; Lough, Corporation Finance. Open to students who have completed or are taking a B-Course. Mon., Wed., Fri., 9. Professor Howard.

*C4. *The Distribution of Wealth*—This course gives advanced students an opportunity to make an intensive study of the principles of economics and of their historical development. A study of the theory of value and distribution as treated by Adam Smith, Malthus, Ricardo, and Mill. The Austrian and Historical Schools. A critical study of modern economic thought. Open to students who have completed or are taking a B-Course. Tu., Th., 9. Mr. Persons.

C5. *Stocks, Bonds, and Investment*—A study of securities and the security market; the distinction between investment and speculation; a comparison of the advantages of various kinds of securities for investment purposes; the organization and methods of stock exchanges, brokerage and bond houses; the principles of corporation finance and management, in so far as the interest of the investor is involved. Open to students who have completed or are taking a B-Course. Mon., Wed., Fri., 10. Professor Wildman.

D. *Seminar*—In this course an extended original investigation upon some specific topic will be undertaken. The thesis prepared in the seminary may be entered in competition for the Harris Prize in Political Science. Undergraduates may not register for more than three hours except by permission of the faculty. *Credit, three to six year-hours.* Open to graduate students and at the discretion of the department, to seniors who have completed three full year courses in economics. Time to be arranged. Professor Deibler, Professor Hotchkiss, and other members of the department.

Education

PROFESSOR FISK AND PROFESSOR LIBBY

MAJOR: Course A, J, or B and C, and seven additional year-hours not taken concurrently with either of these.

Note—Course A is introductory and may well precede other courses in the department. Courses B and J, however, do not require this preliminary course.

A. *General History of Education*—The relation of institutional education to the development of civilization and culture; the discussion of pedagogical principles; the intensive study by individual students of the great educators, Plato, Rousseau, Spencer, *et al.*

Graves's History of Education, Misawa's Modern Educators, Brown's The Making of our Middle Schools and Ziegler's Geschichte der Pädagogik are recommended for reference. This course prepares for the state examinations for supervisors of schools. Open to students who have thirty hours of credit. Mon., Wed., Fri., 3. Professor Libby.

J. *Secondary Education in the United States*—The history of American middle schools, comparison with foreign systems, organization, discipline, curricula, methods, management, hygiene, report of the Committee of Ten, report of the Committee on College Entrance Requirements. Present-day problems. High school visitations with reports, the criticism of text-books, etc. Reading of periodicals. This course prepares directly for the state examination for high school teaching certificates and may be taken in conjunction with Education E. Open to students who have thirty hours of credit. Mon., Wed., Fri., 10. Professor Libby.

B. *Principles of Education*—Lectures, reading, and discussions. Text-books: Compayré's Lectures on Pedagogy, Horne's Philosophy of Education, Rooper's Apperception, Lange's Apperception, De Garmo's Interest and Education, McMurry's Elements of General Method, Hughes's Securing and Retaining Attention. Open to students who have a credit of sixty hours, and to others by special permission. Second semester. Mon., Wed., 4. Professor Fisk.

C. *School Administration*—Lectures, readings and discussions. Text-books: Tompkins's Philosophy of School Management, De Garmo's Principles of Secondary Education, Roark's Economy in Education, Calderwood's On Teaching. Open to students who have completed Course A or Course B, and to others by special permission. Second semester: Fri., 4. Professor Fisk.

F. *Practice Teaching under Supervision*—This work is open only to selected students who have taken or are taking one course or more in this department. The aim is to supplement the work offered in Courses A, J, and B with class-room experiences. To each student is given entire charge of a class for one or two semesters. One hour of credit is given for every two hours of teaching a week through a semester. Professor Fisk and Professor Libby.

K. *Education from the Sociological Point of View*—The school in relation to the family, state, and other social forces; education with reference to philanthropy and to the progress of civilization; the function of the industrial school, evening school, reformatory school, school for defectives, kindergarten, university settlement, and of special institutions. Seminar and lecture methods are employed; reading of recent books and periodicals. Open to seniors, graduates, and to other students who have completed two year-courses in Education. First semester. Mon., Wed., Fri., 9. Professor Libby.

D. *Experimental Pedagogy*—Investigation of the basis of method, the contents of children's minds, fatigue, types of imagination, fidelity of memory, retention and recall. Study of the learning process, by introspection and by observation of others. The research method is employed. The works of Meumann, Claparède, Lay, Montessori, and Binet are recommended for reference. Open to Juniors and Seniors who have completed Psychology A1. Second semester, Mon., Wed., Fri., 9. Professor Libby.

E. *Special Methods*—Lectures, readings, discussions, written reports, etc. See Teachers' courses in various departments.

H. *Educational Psychology*—See department of Psychology, Course B2, page 150.

L. *Aims and Methods in the Teaching of Preparatory Latin*—Open to students who have completed Latin A and J. Second semester. Mon., 9. Professor Fisk.

G. *Adolescence*—Growth in height and weight, growth of the brain and other organs, psychic development, motor education, conversion, adolescent feelings, diseases, crimes, rites, the education of girls, boys' gangs. Hall's Adolescence is used for reference. Members of the class present written reports on monographs. Open to students who have completed two year-courses in Education. Tu., Th., 10. Professor Libby.

Elocution

PROFESSOR CUMNOCK AND MR. LARDNER

A. *First Course*—The regulation of the breath, the use of the body in the development of vocal energy; English phonation; methods of acquiring distinct articulation; the natural orotund voices; the application of force, stress, pitch, rate, quantity, and emphasis, and their importance; the use of inflection and melodious effect; the fundamental principles of gesture and their application. Texts: Russell's Manual of Elocution and Cumnock's Choice Readings. Open to all students. Section I, Tu., Th., 9. Section II, Tu., Th., 2. Mr. Lardner.

B. *Study of Masterpieces of English Eloquence*—Open to students who have completed Course A. Section I, Tu., Th., 8; Section II, Wed., Fri., 8; Mr. Lardner.

C. *Principles of Vocal Expression*—Emphasis is laid upon the acquisition of good form in common reading and oratorical address. The written productions are carefully examined; individual advice and criticism. Open to students who have completed Course B. This course is designed for the year of graduation. Mon., Fri., 9. Professor Cumnock.

D. *Bible, Hymn, and Liturgic Reading*—Mon., Fri., 11. Open to students who have completed Course C. Professor Cumnock.

English Language

PROFESSOR CLARK, MR. BURRILL, MR. BRYAN, DR. CRANE, MR. SMITH, AND MR. DENTON

MAJOR: Courses A and B and six additional year-hours, which must include either Course C, Course D, or Course H, and may include English Literature D. MINOR: Courses A and B and two additional year-hours.

Course A is required of all students during the first year of residence unless especially excused by the Registration Committee. It must precede all other courses in the department.

A. *Rhetoric; Synonyms; Eight Essays*—First semester—Drill in the elements of good style. Second semester—Rhetorical imagery and synonyms. Students who show, early in the first semester, that they are seriously deficient in elementary English, are required to take additional work for such time as may be found necessary. No credit is given till the whole course, including the additional work, if any, is completed. Mon., Wed., Fri., 8, 8, 9, 9, 10, 11, 2, 2, 3, 3; Tu., Th., Sat., 8, 8, 9. Mr. Burrill, Mr. Bryan, Mr. Smith, Dr. Crane, and Mr. Denton.

B. *Prose Masterpieces; Paragraphing*—The diction and the distinctive characteristics of the great writers of prose. After a minute examination of the style and the diction of a given author, each member of the class writes a theme exemplifying the peculiar merits of the author. Twenty-four prominent prose writers are thus studied during the year. Open to students who have completed Course A. Tu., Th., 9, 10. Professor Clark and Dr. Crane.

C. *Versification; Poetic Masterpieces*—The mechanics of English versification and the diction and distinctive characteristics of the great poets. Open to students who have completed Course B. Wed., Fri., 9. Professor Clark and Mr. Bryan.

D. *Old English*—First semester—Bright's Anglo-Saxon Reader. Grammar, reading of prose and easier poetry. Second semester—Beowulf. Old English versification and peculiarities of poetic style. Open to students who have ninety hours of credit and to others by special permission. Mon., Wed., Fri., 2. Mr. Bryan.

E. *A Course in Criticism*—The characteristics of numerous minor writers. Open to students who have completed Courses A and B. Mon., Wed., Fri., 3. Professor Clark and Mr. Smith.

F. *Advanced Composition*—Two short articles a week from every member of the class during the college year. Open to students who have completed Course B. Wed., Fri., 10. Professor Clark and Mr. Burrill.

I. *Composition for Public Speaking*—Open to students who have completed Courses A and B. Tu., Th., 3. Mr. Burrill.

H. *The Longer Forms of Narration*—The student analyses short story masterpieces as models and later constructs original stories.

Open to graduates and to undergraduates who have completed Courses A, B, and F. Tu., Th., 4. Mr. Burrill.

G. *Biblical English*—The diction, imagery, and idiom of the English Bible. Open to graduate students only. *Credit, three year-hours.* Time to be arranged. Professor Clark.

K1. *Historical English Grammar*—A brief presentation of the historical development of Modern English sounds and forms. This course is especially helpful to those expecting to teach English. Open to students who have ninety hours of credit and to others by special permission. First semester. Tu., Th., 2. Mr. Bryan.

K2. *Early Middle English*—Emerson's Middle-English Reader. The dialects of Middle English and their relation to Old English and to modern standard English. Open to students who have completed the first semester of Course D or its equivalent. Second semester. Tu., Th., 2. Mr. Bryan.

English Literature

PROFESSOR BROWN, PROFESSOR SNYDER, AND DR. MARTIN

MAJOR: Course AA or AB and nine additional year-hours, which must include Course C or D, and may include English Language D. MINOR: Course AA or AB and four additional year-hours, of which not more than two year-hours may be taken concurrently with Course AA or AB.

Note—Course AA or AB is required in the Sophomore year of all candidates for a degree and must precede other courses in the department, except that Course B, H, or I may be taken concurrently with one of these. Courses AA, AB, B, H and I may not be counted toward an advanced degree.

AA. *Brief Survey of English Literature*—A general outline of the development of English literature. Lectures, recitations, and a considerable amount of reading. *Credit, two year-hours.* Section I., Lecture, Mon., 11; quiz groups, Wed., 11, 2; Fri., 11. Section II., Lecture, Tu., 9; quiz groups, Th., 9, 10. Professor Brown and Dr. Martin.

AB. *Masterpieces of English Poetry*—Minor writers are omitted or passed over briefly. The work of the course is centered on the masterpieces. *Credit, two year-hours.* Section I., Lecture, Mon., 8; quiz groups, Wed., 8; Fri., 8. Section II., Lecture, Mon., 10; quiz groups, Wed., 10. Professor Snyder.

B. *General View of American Literature*—First semester—Early American historians; the beginnings of poetry in New England; religious prose—the Mathers, Woolman, Edwards, Franklin; revolutionary verse—Songs and ballads, Trumbull, Barlow, Freneau, Brockden Brown, Irving, Bryant, Cooper, Poe. Second semester—Emerson, Thoreau, Whittier, Webster; poetry of the rebellion, Lincoln, Garrison, Phillips, Longfellow, Holmes, Lowell, Hawthorne, Whitman, Lanier, Sill, Bret Harte, Aldrich. The literature of America is studied in its relation to that of England, and to the underlying social and political conditions. Open to students who have completed or are taking Course AA or AB. Tu., Th., 10. Professor Snyder.

H. *English Poetry of the Victorian Period*—First semester—Tennyson, Mrs. Browning, Matthew Arnold, Clough. Second semester—Browning, Fitzgerald, the Rossettis, Swinburne, Morris and Kipling. Open to students who have completed or are taking Course AA or AB. Tu., Th., 11. Dr. Martin.

I. *English Prose of the Victorian Period*—First semester—Carlyle, Newman, Arnold, Ruskin, Pater. Second semester—The English novel since the time of Scott. Lectures on the origin and the history of the English novel; reading of selected works to illustrate this development; extensive reading in Thackeray, Dickens, George Eliot, Hardy, Stevenson, Meredith. Open to students who have completed or are taking Course AA or AB. The second semester may be taken without the first. Tu., Th,. 8. Professor Snyder.

C. *Chaucer and Middle-English Literature*—First semester—A detailed study of a large number of the Canterbury Tales. Second semester—May be taken in each of two successive years. 1911-12: The Parlement of Foules, the Legende of Gode Wommen, and so much of the Troilus and Criseyde as time permits. 1912-13: Gower's Confessio Amantis; The Piers Plowman; The Owl and the Nightingale; The Pearl. Open to students who have completed Course AA or AB and have taken or are taking either Course B, H, or I. Mon., Wed., Fri., 9. Professor Brown.

D. *Shakespeare*—First semester—A detailed study of three of Shakespeare's plays; 1911-1912, Merchant of Venice, Othello, King Lear; 1912-1913, Macbeth, Hamlet, Much Ado about Nothing. This semester's work may be taken in each of two successive years. Second semester—All of Shakespeare's plays are read in chronological

order. Lectures on the development of Shakespeare's art and on his relations to preceding and contemporary dramatists. Open to students who have completed Course AA or AB and have taken or are taking either Course B, H, or I, or have ninety hours of credit. Mon., Wed., Fri., 11. Professor Brown.

*F. *Eighteenth Century Literature*—First semester—Dryden, Defoe, Addison, Steele, Swift, Pope. Second semester—Johnson, Goldsmith, Richardson, Fielding, Burke, Thomson, Gray, Collins, Cowper, Burns. Among topics discussed are: the transition from the seventeenth to the eighteenth century; the development of prose; political pamphlets; literary periodicals; the development of the novel; literary criticism; classicism in poetry; the beginnings of romanticism. Open to students who have completed Course AA or AB and have taken or are taking Course B, H, or I, or have ninety hours of credit. Mon., Wed., Fri., 10. Given in alternate years. Dr. Martin.

G. *The Romantic Movement*—First semester—Burns, Wordsworth, Coleridge, Southey, Lamb, Jeffrey, Jane Austen. Second semester—Scott, Byron, Keats, Shelley, De Quincey, Hazlitt. Among topics discussed are: the romantic revolt as a general movement in European literature; the return to nature; the influence of the French revolution; the revolt against artistic conventions; the awakening of interest in the middle ages; the revival of the individual spirit in English literature. Open to students who have completed Course AA or AB and have taken or are taking either Course B, H, or I or have ninety hours of credit. Tu., Th., 9. Professor Snyder.

E. *Literature of the Middle Ages to Spenser*—First semester—Anglo-Saxon literature, chronicles, legends, lays, romances, ballads; the influence of the Romance of the Rose, of Dante, Petrarch and Boccaccio, Chaucer. Second semester—Gower, Langland, Lydgate, Occleve, "Mandeville," Scottish Poets, Skelton and the non-dramatic writers to Spenser. Open to students who have completed Course AA or AB, and have taken or are taking Course B, H, or I, or have ninety hours of credit. Mon., Wed., 10. Given in alternate years. Professor Brown.

K. *The Elizabethan Drama*—First semester—From the Mysteries and Miracle Plays through the Moralities, the Interludes, and the plays of Lyly, Greene, Peele, Kyd, Marlowe to Jonson. Second semester—Through the plays of Jonson, Shakespeare, Dekker, Chapman, Heywood, Beaumont and Fletcher, Middleton, Webster,

Tourneur, Ford, Massinger, Shirley, and Davenant to the Restoration. Open to students who have taken or are taking one of the courses C, D, E, F, or G. Mon., Wed., Fri., 8. Given in alternate years. Dr. Martin.

*M. *Cædmon and Cynewulf*—In this course is read the greater part of the Anglo-Saxon poetry belonging to the time of Cædmon and Cynewulf. Open primarily to graduate students. Tu., Th., 2. Professor Brown.

Z. *Seminar*—In 1911-1912 the subject is the English Metrical Romances of the Arthurian Cycle. Each student prepares and reads before the class a series of reports which he afterwards puts into the form of a thesis. Beginning with lectures on the characteristics of mediaeval romance, the work of the course is centered upon certain English Metrical Romances of the Arthurian Cycle. Celtic literature is considered and its influence upon mediaeval romance is especially studied. Open to graduate students only. *Credit, three year-hours.* Tu., 3-5. Professor Brown.

CELTIC

*Q. *Old-Irish*—Strachan, Old-Irish Paradigms and selections from the Old-Irish Glosses; Strachan, Stories from the Táin. For graduate students, Wed., 4. Professor Brown.

French

See Romance Languages and Literature, page 151

Geology

Including Geography, Meteorology, Assaying, Metallurgy, Mining

PROFESSOR GRANT, PROFESSOR MANSFIELD, MR. COGHILL, MR. MERRITT, AND MR. THOMPSON

MAJOR: Course A1 or A2 and six additional year-hours, which must include one of the C-courses. MINOR: Course A1, A2, or A3, and four additional semester hours not taken concurrently with these courses.

A1. *General Geology*—A general introduction to Geology. Open to students who have thirty hours of credit and have completed in college or in high school a year-course in Chemistry. *Credit, four*

year-hours. Mon., Wed., Fri., 10. Laboratory hours, Tu., Th., 9 or 10. Professor Grant and Mr. Thompson.

A2. *Geography*—An introductory course in earth science. Students who plan to teach geography in secondary schools should take this course. First semester—The earth as a globe, the atmosphere, the oceans, geography of commerce. Second semester—Physiography of the lands, summary of the geography of the continents. Open to all students. The second semester may be taken without the first. *Credit, four year-hours.* Tu., Wed., Th., 2. Laboratory hours, Mon., or Fri., 2. Professor Mansfield and Mr. Thompson.

A3. *Mineralogy*—Crystallography, blowpipe analysis, determinative mineralogy of the rock-forming minerals and the common ores. Open to students who have thirty hours of credit and have completed in college or in high school a year-course in Chemistry. *Credit, four year-hours.* Tu., Th., 9. Laboratory hours to be arranged in the forenoons. Mr. Merritt.

B1. *Geological and Topographical Field Work*—Methods of geological and topographical surveys; maps, sections, and reports from actual field work. Most of the work of the semester is in the field, and consists in mapping topographically and geologically selected areas. Open to students who have completed or are taking Course A1, and also to students who have completed Course A2. *Credit, three semester-hours.* Tu., Th., 2. Laboratory hours to be arranged. Second semester only. Professor Grant and Mr. Walker.

B2. *Advanced Geology and Physiography*—First semester—Advanced general geology, development of the science, some of the larger problems in geology, current investigations. Second semester—Physiographic and general geology of the United States. Open to students who have completed Course A1 or A2; the second semester may be taken without the first. *Credit, three year-hours.* Tu., Th., 4. Laboratory hours to be arranged. Professor Mansfield.

B4. *Assaying*—Fire assaying of gold, silver, and lead ores; determination of gold in cyanide and chloride solutions. Open to students who have completed or are taking Course A3. *Credit, two year-hours.* Hours to be arranged. This course may be elected as a two-hour course for the year or as a four-hour course for the first semester. Mr. Coghill.

B5. *Metallurgy*—First semester—Fuels, refractory and cementing materials, metallurgy of iron and steel. Second semester—Metallurgy of copper and lead. Open to students who have completed or are taking Course A3. *Credit, two year-hours.* Tu., Th., 8. Mr. Coghill.

B6. *Elements of Mining*—Open to students who have forty-five hours of credit. *Credit, three semester hours.* This course begins with the second semester. Mon., Wed., Fri., 8. Mr. Coghill.

C1. *Economic Geology*—First semester—Metallic mineral resources, especially of the United States. Second semester—Nonmetallic mineral resources, especially of the United States. Open to students who have completed Course A1, and have completed or are taking Course A3 or B2; also to students who have completed Courses A2 and A3. *Credit, three year-hours.* Tu., Th., 11. Laboratory hours to be arranged. Professor Grant.

C2. *Historical or Glacial Geology*—Open to students who have completed Course A1, or A2, and have completed or are taking Course A3, B1, or B2. *Credit, three semester hours.* Second semester. Mon., Wed., 4. Laboratory hours to be arranged. Professor Mansfield.

*C3. *Petrology*—Optical mineralogy and the determination of minerals by use of the petrographical microscope; a study of the more important rocks. Open to students who have completed Courses A1 and A3 or to students who have completed one of these courses and are taking the other. *Credit, four year-hours.* Mon., Wed., Fri., 11. Laboratory hours to be arranged. Professor Grant.

C4. *Metallurgy*—Metallurgy of zinc, gold and silver. Open to students who have completed Course B5. *Credit, two year-hours.* Hours to be arranged. Mr. Coghill.

D. *Courses Primarily for Graduates*—Advanced Petrology; advanced Geography; Pre-Cambrian Geology; Research work. Credit and time to be arranged. Professor Grant and Professor Mansfield.

German Language and Literature

PROFESSOR HATFIELD, PROFESSOR CURME, PROFESSOR EDWARD, MR. ROLOFF, AND MR. BAKER

MAJOR: Courses A and B and six additional year-hours, which must include Course D. MINOR: Courses A and B.

AA. *Elementary German*—Pronunciation, grammar, selections in prose and verse, German composition. Credit will not be given unless the full course is completed. Mon., Tu., Wed., Th., Fri., 8, 9, 10. Professor Edward, Mr. Roloff, and Mr. Baker.

AB. *Supplementary German*—Reading of simple literature, translation into German, grammatical drill. Open to students who present one unit of German in their four units of foreign languages for admission. Mon. Wed., Fri., 11; Tu., Th., Sat., 9. Professor Edward and Mr. Roloff.

A. *Intermediate German*—Sections I, III, IV—Modern Prose writers, Storm, Freytag, Seidel, Hoffmann, Ernst, etc. German lyrics and ballads. Sections II, V, VI—Lessing's Minna von Barnhelm, German lyrics and ballads, Schiller's Wilhelm Tell and Maria Stuart, Lessing's Nathan der Weise. Open to students who have completed Course AA, or who presented two units of German for admission. Mon., Wed., Fri., 9, 9, 10, 10, 11; Tu., Th., Sat., 8. Professor Curme, Professor Edward, Mr. Roloff, and Mr. Baker

I. *Intermediate German Composition*—Open to students who have completed Course AA or A. Tu., Th., 9, 10. Mr. Roloff, and Mr. Baker.

B. *Goethe's Life and Works,* 1749-1800—Dichtung und Wahrheit, Goetz, Werther, Lyrics, Egmont, Iphigenie, Tasso, Hermann und Dorothea. Writing of German themes. German H may be suitably combined with this course. Open to students who have completed German A or its equivalent. If taken a second time with new subject matter, a credit of two hours is given. In 1912-1913 the subject will be literature relating to the Thirty Years' War. Mon., Wed., Fri., 8, 11, 3. Professor Hatfield, Professor Curme, and Mr. Baker.

H. *Advanced German Composition*—Von Jagemann's Syntax and Prose Composition; translation of short English stories into

German. Open to students who have completed Courses A and I, or their equivalent. Tu., Th., 8. Professor Edward.

J. *Modern German Drama*—Two courses are given in alternate years. They present an outline of German life in the nineteenth century as reflected in the drama, exclusive of the classical works of Goethe and Schiller. First half of the century: H. von Kleist, Grillparzer, Raimund, Gutzkow, Hebbel, Otto Ludwig. Second half of the century; Anzengruber, Wildenbruch, Sudermann, Hauptmann, Fulda, Lienhard, Otto Ernst. Open to students who have completed Course B. Tu., Th., 4. Professor Curme.

F. *German Novel and Short Story*—Two courses are given in alternate years. They present an outline of German life in the nineteenth century as reflected in the novel and short story. First half of the century: H. von Kleist, Hauff, Hoffmann, Immermann, Stifter, Grillparzer, Ludwig, C. F. Meyer. Second half of the century: Spielhagen, Storm, Heyse, Raabe, Fontane, Wildenbruch, Sudermann, Frenssen. Open to students who have completed Course B. Courses J and F may be suitably combined. Tu., Th., 3. Professor Edward.

C. *Goethe's Faust*—Conducted in German; both parts of the drama are read; intended for mature students. Open to students who have completed Course B and have sixty hours of credit. Tu., Th., 11. Professor Hatfield.

D. *History of German Literature*—A systematic study of German literature from the earliest times. Thomas's History of German Literature and reading of typical classics. Open to students who have completed Course B. Mon., Fri., 3. Professor Hatfield.

K. *Historical Grammar of the German Language*—The historical development of the forms and syntax of the German language; the reading of important literary works of different periods. Texts: Braune's Althochdeutsche Grammatik, and Althochdeutsches Lesebuch, Paul's Mittelhochdeutsche Grammatik, Wright's Historical German Grammar, Hartmann von Aue's Der arme Heinrich, Curme's Grammar of the German Language as spoken and written today. Open to seniors and graduate students. Mon., Wed., Fri., 4. Professor Curme.

L. *Middle High German Masterpieces*—The reading of masterpieces of the Middle High German period without a formal study of the grammar. The following works are taken up: Zarncke's edition of the Nibelungenlied and Martin's Wolfram's von Eschenbach Parzival and Titurel. Open to students who read modern High German fluently. Tu., Th., 3. Professor Curme.

E. *German Seminar*—First semester: From Luther to Lessing. Second semester: Heine and Platen. Intended for graduate students; enrollment is at the discretion of the instructor. In 1912-1913, Volkslied, Uhland, and Wilhelm Müller. *Credit, two to five year-hours.* Sat., 8:30 to 10. Professor Hatfield.

M. *Social Tendencies in German Literature since* 1848—The main political and social currents of thought as reflected in the literature of this period. For seniors and graduate students. Tu., Th., 2. Mr. Roloff.

S. *Germanic Philology*—First semester—Gothic. Second semester—Old Saxon. See Scandinavian S. Open to seniors and graduate students. *Credit, two to four year-hours.* Professor Elmquist.

Greek

See Classical Languages, page 119

History

Including Diplomacy and Government

PROFESSOR JAMES, PROFESSOR HARRIS, PROFESSOR TERRY, DR. LICHTENSTEIN, DR. POOLEY, AND MR. WEST

MAJOR: Course A, E, or H, and seven additional year-hours, which must include Course K, S, or S1. MINOR: Course A, E, or H, and three additional year-hours, not taken concurrently with A, E, or H.

A. *English History*—English political history from the Anglo-Saxon period to the present day. The development of governmental institutions and of the church. Open to all students. Mon., Wed., Fri., 8, 2. Professor Terry.

E. *European History During the Middle Ages*—The transition from the ancient to the mediaeval world; the barbarian invaders

and kingdoms; the growth of the Christian church; the feudal system; mediaeval culture; the beginnings of modern states and civilizations. Open to all students. Mon., Wed., Fri., 8, 2. Dr. Pooley.

H. *Elements of Politics*—First semester—American Politics; organization and the development of federal, state, and local governments, and political parties in the United States. Second semester—Comparative National Government, comparative analysis of the governments and constitutional law of Germany, France, Austria-Hungary, Italy, Spain, Switzerland, and the British Empire. Open to all students. Mon., Wed., Fri., 10. Mr. West.

B. *English Constitutional History*—The historical development of the English government from the Anglo-Saxon period to the present day. Open to students who have completed Course A. Tu., Th., 2. Dr. Pooley.

C. *British Colonial History*—First semester—The British Colonies to the close of the American Revolution. Second semester—British rule in India and Malaysia. Development of Canada, Australia and South Africa. The second semester may be taken without the first. Open to students who have completed Course A, E, or H. Mon., Wed., Fri., 3. Professor Terry.

BC. *American History*—The History of the United States from the Revolution. The formation of the Union, the rise and growth of parties, the influence of westward expansion and of slavery on the political, social, and industrial life. Open to students who have completed one full year course in the department, or an equivalent, or have sixty hours of credit. Mon., Wed., Fri., 11. Professor James.

D. *Greek and Roman History*—First semester—History of Greece from the earliest times to the Roman conquest. Second semester—Rome from the earliest times to the break-up of the Empire. The second semester may be taken without the first. Open to students who have completed one full year course in the department or have sixty hours of credit. Tu., Th., 9. Dr. Pooley.

F. *Modern European History*—A general course dealing with the important phases of European history during the period 1400-1789. The Renaissance, Reformation, Catholic Reaction, Wars of Religion, Age of Louis XIV., Rise of Russia and Prussia, including the social and cultural as well as the political development. Open

to students who have completed one full year-course (preferably Course E), in the department. Mon., Wed., Fri., 9. Dr. Pooley.

G. *European History from the French Revolution*—First semester—The causes and events of the French Revolution and the wars of Napoleon. Second semester—The evolution of constitutional government in the states of Europe; revolts of 1820, 1830, and 1848; the unification of Italy and Germany. Open to students who have completed one full year course in the department or have sixty hours of credit. Mon., Wed., Fri., 10. Professor Terry.

HI. *Municipal Government; Political Parties*—First semester—Historical, analytical, and comparative study of city governments in Europe and in the United States. Second semester—Rise and growth of political parties in the United States, the theory and practice of party government, comparison with party systems of Europe, evils of party politics, reform and non-partisan movements, and attempts at legal control of parties through ballot and election laws and direct primaries. The second semester may be taken without the first. Open to students who have completed Course H. Mon., Wed., Fri., 2. Mr. West.

N. *International Law*—The general principles of the Law of Nations with reference to the relations of states in times of peace and of war, the rights and duties of neutrals; methods employed for the settlement of international difficulties. Open to students who have completed one full year course in the department or who have sixty hours of credit. Tu., Th., 11. Professor Harris.

I. *Methods of Teaching History*—Special reference to the work of secondary schools and the bibliography of American History. Open to students who have completed two full year courses in the department. Tu., 2. Professor James.

J. *Historical Bibliography and Criticism*—Introduction to advanced historical work by reference to the great historical collections and works of mediaeval and modern European history; methods of historical criticism and investigation. Open to students who have completed two full year courses in the department. Th., 2. Dr. Lichtenstein.

K. *European Diplomacy and World Politics in the Nineteenth and Twentieth Centuries.*—Contemporary International Politics from 1878 to the present day with particular reference to Imperialism

and the New Internationalism, the partition of Africa, and the diplomatic and colonial activities of European states in India, Turkestan, Central Asia, and the Far East. Open to students who have completed two full year courses in the department; by special permission to students with ninety hours of credit; and to graduates. Tu., Th., 10. Professor Harris.

S. *History of the West*—The advance of the frontier, the political and industrial development of the West, and its effects upon national development. Open to students who have completed Course BC and one other year course in the department; by special permission, to students with ninety hours of credit; and to graduates. Tu., Th., 3. Professor James.

*S1. *Diplomatic History of the United States*—The foreign relations of the United States from the close of the Revolution, commercial treaties following the Revolution, the Monroe Doctrine, the diplomacy of expansion, the relations with the South American republics, the period of the Civil War, inter-oceanic transportation routes; the United States in the Far East. Open to students who have completed Course BC, and one other year-course in the department; by special permission, to students with ninety hours of credit; and to graduates. Tu., Th., 3. Professor James.

M. *Seminar in American History*—During the year 1911-12 the problems discussed are Slavery in the United States and Reconstruction. Open only to graduate students. *Credit, three year-hours.* Tu., 4 to 5; Th., 4 to 6. Professor James.

M1. *Rise of Prussia*—The political, intellectual, and economic development of Prussia and Germany since the time of the Great Elector; age of Frederick the Great; Napoleonic period; the Reaction; the Bismarck era. A reading knowledge of German and French, and the preparation of a thesis are required. Open to graduate students and to students whose major is History and who have completed three full-year courses in the department. *Credit, two year-hours.* Dr. Lichtenstein.

M2. *Seminar in Diplomatic History*—Problems relating to the rise and expansion of Russia are studied during 1911-1912. Open to graduate students and to students making a major in History who have completed three full year-courses in the department. *Credit, two year-hours.* Mon., 3 to 5. Professor Harris.

For Church History, see page 167

Italian

See Romance Languages and Literature, page 153

Latin

See Classical Languages, page 118

Mathematics

PROFESSOR HOLGATE, PROFESSOR CURTISS, PROFESSOR WILSON, PROFESSOR MOREHEAD, DR. BROOKS, MR. YEATON, MR. MOULTON, AND MR. LITTLE

MAJOR: Courses A1 and A2, (or Course A3), B1, and six additional year-hours, which must include at least one C-course. MINOR: Courses A1 and A2 (or Course A3,) and either B1 or B2.

Note—Courses A1 and A2, or Course A3, or their equivalent, must precede all more advanced courses in the department. A rearrangement of courses of the A-group is contemplated for the year 1912-1913.

AA. *Algebra*—Required of all students who present but one unit of Algebra for admission. First semester. Tu., Th., 8, 11. Dr. Brooks and Mr. Little.

A1. *Plane Trigonometry and Analytical Geometry*—First semester—Review of Algebra. Plane Trigonometry, including the solution of oblique triangles. Second semester—Plane Analytical Geometry; an elementary course on the straight line and conic sections. Required of all candidates for a degree except those who elect Course A3. (See also note added to the list of courses prescribed for the degree of Bachelor of Arts, page 109). If deferred beyond the Sophomore year, this course bears a decreased credit. Mon., Wed., Fri., 8, 9, 10, 11, and 3. Tu., Th., Sat., 8, 8, 9, 9. Tu., Th., 10, 11; Fri., 3, 3. Professor Curtiss, Professor Wilson, Professor Morehead, Dr. Brooks, Mr. Yeaton, and Mr. Moulton.

A2. *Algebra*—A course more advanced than Course AA. Ratio and proportion; the progressions; the graphical treatment of simultaneous quadratic equations; the binomial theorem for positive integral exponents; determinants; the numerical solution of equa-

tions. This course may be taken concurrently with Course A1, or may be substituted for the second half of Course A1. A half-year course given each semester. Open to students who have presented one and a half units of Algebra for admission or who have completed Course AA. Mon., Wed., Fri., 11. Dr. Brooks.

A3. *Trigonometry, Algebra, and Analytical Geometry*—A more extended course than Course A1, treating the three subjects in coördination. Open to students who have presented one and a half units of Algebra for admission or who have completed Course AA. Mon., Tu., Wed., Th., Fri., 8, 10. Professor Morehead, Mr. Yeaton, and Mr. Moulton.

A4. *Solid Geometry and Spherical Trigonometry*—Open to students who have completed the first semester of Course A1 and have not presented Solid Geometry for admission. This course may be substituted for the second half of Course A1. Second semester. Tu., Th., Sat., 8. Professor Wilson.

A5. *Analytical Geometry*—First semester—An elementary treatment of the straight line and conic sections, equivalent to the second half of Course A1. Second semester—Continuation of Plane Analytical Geometry and introduction to Geometry of three dimensions. Open to students who have completed the first semester of Course A1, or its equivalent. Mon., Wed., Fri., 9. Professor Curtiss.

B1. *Differential and Integral Calculus*—The first section continues the work of Course A3, including Calculus and an introduction to Solid Analytical Geometry. The second section continues the work of Courses A1 and A2. Mon., Wed., Fri., 8, 9. Professor Wilson and Mr. Yeaton.

*B3. *The Principles of Algebra and Geometry*—A critical and historical study of the logical foundations of secondary mathematics. This course is included in Education E and is designed especially for those who intend to teach. Open to students who have completed Courses A1, A2, and A4, or Courses A3 and A4, and who have a credit of fifty semester-hours. Tu., Th., 10. Professor Wilson.

B4. *Statistics and Insurance*—Frequency, distribution, correlation, theory of probabilities, etc.; application to life insurance. Open

to students who have completed Course A1 or its equivalent. Mon., Wed., Fri., 9. Dr. Brooks.

C1. *Advanced Calculus*—Infinite series; Taylor's theorem, partial differentiation; differential geometry; definite integrals over curves, surfaces and volumes; the Eulerian functions; Fourier's series; differential equations. Open to students who have completed Course B1. Mon., Wed., Fri., 11. Professor Curtiss.

C2. *Analytical Mechanics*—Dynamics of a rigid body. Open to students who have completed Mathematics B1 and Physics B. Tu., Th., Sat., 9. Professor Wilson.

*C3. *Advanced Analytical Geometry*—An introduction to the study of some of the more important transformations, as projection, inversion, and polar reciprocation. Open to students who have completed Course B1 or B2. Tu., Th., Sat., 9. Professor Holgate.

C4. *Modern Synthetic Geometry*—The introduction of infinitely distant elements into geometry; central projection; perspectivity and projectivity; generation of conics from projective forms; ruled quadric surfaces; involution; poles and polars; systems of conics. Open to students who have completed Course B1 or B2. Tu., Th., Sat., 9. Professor Holgate.

C5. *Solid Analytical Geometry; Advanced Algebra*—Open to students who have completed Course B1 or B2. Mon., Wed., Fri., 9. Professor Morehead.

D1. *The Partial Differential Equations of Mathematical Physics*—The solution of problems in Heat, Electricity, Acoustics, etc., by means of Fourier's series and allied developments; a treatment of these developments; ordinary linear differential equations whose solutions are connected with these problems; the theory of the Potential Function. Open to students who have completed Course C1. Mon., Wed., Fri., 8. Professor Curtiss.

*D2. *The Theory of Functions*—Open to students who have completed Course C1. Professor Curtiss.

D3. *The Theory of Numbers*—An introduction to the classical Theory of Numbers. Open to students who have completed a C course. Primarily for graduate students. Hours to be arranged. Professor Morehead.

*D6. *Vector Analysis*—Open to students who have completed or are taking a C course. Hours to be arranged. Professor Wilson.

Music

PROFESSOR LUTKIN, MR. GARWOOD, AND MR. WHITE

Note—Students in the College of Liberal Arts may elect courses in the theory and history of music not to exceed twenty semester hours in the aggregate.

A. *Introductory Harmony, Form and Analysis*—Scale and melody writing; construction of the period; intervals and two-part writing; chord-reading; small two-part primary forms; triads, inversions, chord-connection in three and four parts, cadences, modulations, dominant sept-chord. White's Harmony and Ear-training. *No credit.* Mon., Wed., Fri., 3; Tu., Th., 3; Sat., 9. Mr. Dodge.

B. *History of Music*—A general survey of musical history and biographies of musicians. Recitations; class singing of specimens of Gregorian chant, early canons, and folk songs. Musical illustrations of later periods. Hamilton's Outlines of Music History. *Credit, one year-hour.* Th., 2, 3. Mr. Garwood.

C. *Sight-Reading, Vocal*—Drill in scale and interval singing. Time sub-divisions, ear training, dictation, part-singing. *No credit.* Mon., Th., 4:00. Mr. White.

D. *Harmony*—Figured basses and harmonization of melodies, employing the use of triads, dominant, diminished, and supertonic sept-chords, with inversions, in dispersed harmony. Secondary sept-chords and chords of the ninth. Suspensions and tones foreign to the harmony. Organ-point, modulation, etc. White's Harmony Part-writing. *Credit, two year-hours.* Mon., Th., 11. Professor Lutkin.

E. *Form and Analysis*—Chord-reading. Bach's inventions. Primary forms, principally from Mendelssohn and Chopin. Song or Aria form. Minuets, marches, scherzos, rondos, theme and variations, the sonata form. Sonatas as a whole. Preludes and fugues. *Credit, two year-hours.* Tu., Fri., 11. Professor Lutkin.

F. *History of Music*—Lectures on the growth of musical art as related to the events of general history and the development of literatures. Pratt's History of Music. *Credit, one year-hour.* Mon., 2, 3. Mr. Garwood.

K. *History of Music*—Romantic period. Modern and contemporary instrumental forms, study of Wagner, music drama and literature, German and Norse mythology and legend. Pratt's History of Music, the Oxford History of Music. *Credit, one year-hour.* Mon., 11. Mr. Garwood.

T. *Public School Music and Methods.* The principles and practice of public school teaching of music. *Credit, two year-hours.* Tu., Fri., 2. Mr. White.

U. *High School Music and Methods*—Choruses and orchestras. Outline of courses in harmony for high schools. *Credit, two semester hours.* Second semester. Tu., Fri., 4. Mr. White.

V. *Psychology and Pedagogy of Music*—The application of psychology and pedagogy to musical education. Halleck's General Psychology; Bryan's Basis of Education. *Credit, two semester hours.* First semester. Tu., Fri., 4. Mr. White.

Philosophy

PROFESSOR LONGWELL AND PROFESSOR CROOKS

MAJOR: Two A-courses, B1, and four additional year-hours, including at least one C-course. MINOR: Two A-courses and three additional year-hours.

Note—Psychology A1 may be substituted for an A-course.

A1. *Logic*—A study of elementary Logic, deductive and inductive; text-book, written exercises, and lectures. Open to students who have thirty hours of credit. First semester. Mon., Wed., Fri., 2. Professor Longwell. Second semester. Mon., Wed., Fri., 10. Professor Crooks.

A2. *Ethics*—An introductory study of ethical principles, with practical applications to contemporary life, individual and social; text-book, collateral reading, and lectures. Open to students who have thirty hours of credit. First semester. Mon., Wed., Fri., 10. Professor Crooks.

A3. *Introduction to Philosophy*—Lectures, collateral reading, and text-book. An approach to philosophy through a preliminary study of science (its history and problems); special reference to the evolutional view-point, and the connection of philosophy with life. Training in independent reflection, and acquaintance with the philo-

sophic attitude, constitute the aims of the course. Open to students who have thirty hours of credit. Second semester. Mon., Wed., Fri., 2. Professor Longwell.

B1. *History of Philosophy*—A course of lectures on the development of thought in the Occident, with text-book as aid, and abstracts of philosophical classics. First semester—Ancient and Mediaeval Philosophy. Second semester—Modern Philosophy. Open to students who have completed two A-courses. Mon., Wed., Fri., 11. Professor Longwell.

B2. *Psychology and Philosophy of Religion*—Lectures, collateral reading, and text-book. First semester—A psychological study of religious experience. Second semester—Fundamental religious conceptions in the light of philosophic and scientific thought. Open to students who have completed two A-courses. Mon., Wed., Fri., 3. Professor Crooks.

*B3. *Philosophy of Science*—Lectures, reports, and discussions. An attempt to form a proper estimate of Science (its methods and aims, results and limitations) through its development in the ancient, mediaeval, and modern periods. Open to students who have completed Course A1 or A3. Second semester. Tu., Th., 9. Professor Longwell.

*B4. *British Moralists*—Lectures, reports, and discussions. A study of English thought on the problem of right and wrong, from Hobbes to the present time. Open to students who have completed Course A2. First semester. Tu., Th., 9. Professor Crooks.

C1. *Nineteenth Century and Contemporary Philosophy*—A lecture course, with reading of sources (in translation), and discussions. First semester—Philosophy of the 19th century: a study of idealism, empiricism, materialism, positivism, and agnosticism, as found in the German, Scottish-English, and French philosophies. Second semester—Contemporary Philosophy: the various movements of thought in Germany, England, France, Italy, and America, from about 1880 to the present time. Open to students who have completed Course B1. Mon., Wed., Fri., 9. Professor Longwell and Professor Crooks.

*C2. *Religious Psychology and Mediaeval Mysticism*—Lectures, reports, and discussions. The course aims to be constructive as well

as critical. First semester—An examination of fundamental religious phenomena and conceptions. Second semester—A study of types of speculative and practical mysticism from the Neo-Platonists to the German Mystics. Open to students who have completed Course B2. Tu., Th., 11. Professor Crooks and Professor Longwell.

*C3. *Patristic and Mediaeval Philosophy*—Lectures, reading of sources, and discussions. A treatment of the philosophic ideas of these periods, in relation to the prevailing conditions of science and culture, and their historical connection with modern intellectual life. Open to students who have completed or are taking Course B1. Second semester. Tu., Th., 9. Professor Longwell.

*C4. *Modern Conceptions of God*—Lectures, reading of texts, and discussions. A critical examination and constructive evaluation of the more notable attempts, from Descartes to the present time, to define the character and activity of God. Open to students who have completed or are taking Course B2. First semester. Tu., Th., 9. Professor Crooks.

D1. *Seminar in Metaphysics*—Theses and discussion. A critical and comparative study of selected philosophical systems, in respect to metaphysics and epistemology. During 1911-1912: Aristotle, Aquinas, and Kant; concluding with a brief notice of Spencer and Comte. During 1912-1913: Plato, Eriugena, and Spinoza; with a brief notice of Schelling and von Hartmann. Open to students who have completed Course B1 and are taking a C-course. Hours to be arranged. Professor Longwell.

D2. *Seminar in Ethics*—Theses and discussion. A critical and comparative examination of fundamental ethical conceptions. During 1911-1912: A study of Kant's ethical theory, and the relation of the idealistic to other systems of ethics. During 1912-1913: An examination of twelve typical moral philosophers, from Socrates-Plato to Herbert Spencer, including a study of the ethics of Jesus. Open to students who have completed a B-course, and are taking a C-course. Hours to be arranged. Professor Crooks.

Physical Culture and Hygiene

DIRECTOR HAMMETT, MISS ARNOLD, AND ASSISTANTS

Physical training is required of all undergraduates during their first year of residence, but in case of physical disability, properly at-

tested, the student may be released from this requirement at the request of his parents or guardian; such release, however, can be had only by vote of the Committee on Gymnasium and Physical Training.

The character of the work for each student is determined by the department after careful consideration of his individual needs, and it may include athletic sports, swimming, or indoor gymnastics, but in all cases the requirement is three hours a week for one year.

Gymnasium hours for men—
Floor classes, daily, 11-12; 4-5; 5-6.
Swimming, daily, 10-11; 2-3; 4-6.
Exercise room, daily, 9-6.

Gymnasium hours for Women—
Floor classes, daily, 10-11; 2-3; 3-4.
Swimming, daily, 11-12; 3-4.
Exercise room, daily, 9-6.

Physics

PROFESSOR CREW, PROFESSOR TATNALL, DR. MCCAULEY, AND MR. HAKE

MAJOR: Courses A, B1, and C. MINOR: Courses A, and B1 or B2.

A. *General Physics*—First semester—General properties of matter, wave-motion, sound. Second semester—Heat, electricity, magnetism, light. An introductory course requiring no mathematics beyond the requirements for entrance to college, intended to acquaint the student with the elementary facts, the method, and the general principles of physical science. Text-book: Crew's General Physics. One laboratory exercise each week. Open to all students. *Credit, four year-hours.* Mon., Wed., Fri., 9, 10. Professor Crew, Professor Tatnall, Dr. McCauley, and Mr. Hake.

B1. *Mechanics*—An elementary experimental study of forces, moments of force, moments of inertia, elasticity, hydromechanics; an introduction to advanced physics and engineering. This is a course in pure Dynamics, and serves as an introduction to Applied Mechanics. Text-book: Crew's Principles of Mechanics. Two lectures and one laboratory exercise a week. The laboratory work is guided by specially prepared instructions. For this course Physics A is a prerequisite and Math. B1 must either have been completed or be taken concurrently. *Credit, three year-hours.* Tu., Th., 8. Professor Tatnall.

B2. *Physical Optics*—Two lectures and one laboratory exercise a week. Theoretical and experimental study of the general phenomena of refraction, diffraction, interference, and polarization. Study of the spectrometer and interferometer, and of the aims and methods of spectroscopy. Application of the principles of diffraction and interference to the telescope, the spectroscope, the interferometer, and other optical instruments. The laboratory work is guided by a set of instructions prepared and printed especially for this laboratory. Text-book: Edser, Light for Students. Open to students who have completed Course A. *Credit, three year-hours.* Two lectures and one afternoon in the laboratory. Hours to be arranged. Professor Crew and Dr. McCauley.

C. *Electricity and Magnetism*—Two lectures and one laboratory exercise a week. The more general laws of electricity and magnetism are discussed; the practical equations employed in the laboratory are derived and discussed. Text-books: J. J. Thomson's Elements of Electricity and Magnetism. The laboratory work includes the measurement by one or more methods of current, resistance, electromotive force, temperature-coefficients, capacity; a study of the magnetic properties of iron and steel, thermo-electric effects, the use of the electrometer, the Carey Foster bridge, potentiometer, copper voltameter, etc. Open to students who have completed or are taking Course B1 or B2. *Credit, three year-hours.* Tu., Th., 9. Laboratory hours to be arranged. Professor Crew and Professor Tatnall.

D. *The Alternating Current Circuit*—One lecture and one laboratory exercise each week. In this course the physical properties of the alternating current circuit are considered, rather than the application of these to engineering problems. The laboratory work includes measurements of current, inductance, capacity, impedance, study of wave-forms, use of oscillograph, etc. Primarily for graduates. Open to students who have completed Course C. *Credit, two year-hours.* Tu., Th., 10. Professor Tatnall.

E1. *Mathematical Physics; Electricity and Magnetism*—Essential for all advanced students of pure physics and for those contemplating electrical engineering of high grade, and recommended to students interested in applied mathematics. The course is intended primarily for graduates. Open to students who have completed Course C. Text-book: Jeans' Mathematical Theory of Electricity

and Magnetism. Given in alternate years with Course E2. Mon., Fri., 9. Professor Crew.

*E2. *Mathematical Physics; Optics*—The general theory of physical optics, spectrum analysis, and polarization, including the theory of optical instruments. Given in alternate years with Course E1. Intended to be accompanied by laboratory work, the hours of credit for which are to be separately determined in each case. Schuster's Theory of Optics represents the ground covered. For advanced students and graduates. Mon., Fri., 9. Professor Crew.

Psychology

PROFESSOR SCOTT AND PROFESSOR GAULT

MAJOR: Ten year-hours, including Course C1, or C2 and C3. MINOR: Courses A1, A2 or A3, and three additional year-hours.

A1. *Elementary General Psychology*—Class room demonstrations and guidance to private observation; demonstration of apparatus and methods of experimental psychology; written exercises and experiments by members of the class; text-book, lectures, and collateral reading. Open to students who have thirty hours of credit. First semester, Mon., Wed., Fri., 10, 2; second semester, Mon., Wed., Fri., 9. Professor Scott and Professor Gault.

A2. *Special Topics in General Psychology*—A more intensive study of a group of special topics than can be given in Course A1. Open to students who have completed Course A1 or its equivalent. Mon., Wed., Fri., 2. Second semester. Professor Scott.

A3. *Social Psychology*—A study of the social aspects of general psychology. Open to students who have completed Course A1. Mon., Wed., Fri., 10. Second semester. Professor Gault.

B1. *Experimental Psychology*—Intended for students of general psychology who desire to become acquainted with laboratory methods. Open to students who are taking or have completed Courses A1 and A2. Two consecutive hours of laboratory work are required for one hour of credit. Wed., Fri., 3 to 5. Professor Gault.

B2. *Applied Psychology; Education*—This course aims to set forth the scientific basis of teaching in so far as it is found in the science of Psychology, and to enable the student to think educational problems from the point of view of mental development in the child. The physical nature of the child, his instincts and capacities, with their individual variations, with a study of mental tests and measurements. Open to students who have completed Course A1 or its equivalent. Kirkpatrick's Fundamentals of Child Study and Thorndike's Educational Psychology. Tu., Th., 10. Professor Gault.

B3. *Applied Psychology; Business*—Psychological principles which have the most direct application to business. Analysis of business practices and an attempt to understand from a psychological standpoint some of the causes of successes and failures in business. Individual students study the actual and also the possible applications, in business of such factors as imitation, competition, loyalty, the love of the game, and personal differences. More attention is paid to advertising than to other forms of business. Open to students who have completed Course A1. Second semester. Mon., Wed., Fri., 9. Professor Scott.

C1. *Advanced Experimental Psychology*—A continuation of Course B1, with the introduction of a limited amount of research. Two consecutive hours of laboratory work are required for one hour of credit. Open to students who have completed Course B1. *Credit, two year-hours.* Hours to be arranged. Professor Scott.

C2. *Psychology of the Abnormal Mind*—Study of abnormal forms of mentality in their relation to the operations of the normal mind. Border line phenomena receive special emphasis. Störring's Mental Pathology and Normal Psychology. Open to students who have completed a B-course. Given in alternate years with Course C3. First semester. Mon., Wed., Fri., 9. Professor Gault.

*C3. *History of Modern Psychology*—Points of view which have held sway and those which are at present foremost in Psychology. Given in alternate years with Course C2, and in 1912-1913. Open to students who have completed a B-course. First semester. Mon., Wed., Fri., 9. Professor Gault.

D1. *Research Work*—Open to students who have completed a C-course. *Credit, two to five year-hours.* Hours to be arranged. Professor Scott.

Romance Languages and Literature

PROFESSOR BAILLOT, PROFESSOR DE SALVIO, MR. PIEYRE, MR. STONE, AND DR. RATTI

MAJOR: Courses A and B in French and six additional year-hours, which must include at least four year-hours in French more advanced than Course B. MINOR: Courses A and B in French.

FRENCH

Le Cercle Français meets on alternate Thursdays at 7:30 o'clock p. m., and is open to all students who have completed Course A in French.

AA. *Elementary French*—Thieme and Effinger's Grammar. Whitney's Reader. Labiche's La Grammaire. Merimée's Colomba, Sicard's Easy French History. Baillot-Brugnot's Composition. Labiche-Martin's Voyage de M. Perrichon. Papot-Williamson's Easy French Stories. Sand's La Petite Fadette. Simple dictation, private reading, and composition. Credit will not be given unless the full course is completed. Mon., Tu., Wed., Th., Fri., 8, 8, 9, 10, 11, 2. Mr. Pieyre, Mr. Stone, and Dr. Ratti.

AB. *Intermediate French*—Open to students who have presented one unit of French for admission. Mon., Wed., Fri., 9. Dr. Ratti.

A. *Modern French*—Baillot-Brugnot's Composition. Advanced Grammar. Reading. Madame de Girardin's La Joie fait Peur. Eugène Scribe's Les Doigts de Fée. Coppée's On rend l'Argent. Freeborn's Contes de Daudet. Pailleron's Le Monde où l'on s'Ennuie. White's Contes de Maupassant. Victor Hugo's Quatre-Vingt Treize. Canfield's French Lyrics. Coppée's Le Pater. Victor Hugo's Hernani. Private reading: Cameron's Selections from Loti. Hennequin's Lessons in Idiomatic French. Essays. Open to students who have completed Course AA or its equivalent. Mon., Wed., Fri., 10, 10, 11, 2, Tu., Th., Sat., 9. Professor de Salvio, Mr. Stone, Mr. Pieyre, and Dr. Ratti.

B. *Classic French Literature of the Seventeenth and Eighteenth Centuries*—First semester—Seventeenth Century. Corneille's Le Cid, Polyeucte. Racine's Athalie. Molière's Le Misanthrope, L'Avare. Warren's Prose Writers of the 17th Century. Composition. His-

tory of the French Theater, in dictations. Collateral reading: Crane's La Société Française au 17e Siècle. Short lectures on the history of the theater in France. Second semester—Eighteenth Century. Lesage's Gil Blas. Voltaire's Zaïre and letters. Beaumarchais' Le Barbier de Séville and letters. A study, with collateral reading, is also made of other authors of the eighteenth century. Exercises in French syntax. Open to students who have completed Course A or an equivalent. Mon., Wed., Fri., 8, 9, 10. Professor Baillot.

G. *French Composition*—Open to students who have completed French A. *Credit, two year-hours.* Tu., Th., 11. Professor Baillot.

C. *General Survey of French Literature to the End of the Sixteenth Century*—Demogeot's French Literature and Darmesteter and Hatzfeld's Le Seizième Siècle en France will be used as text-books, and collateral reading is assigned by the instructor. Dictations. Papers on collateral reading. Open to students who have completed Course B. Tu., Th., 11. Mr. Pieyre.

D. *Modern French Literature*—The literature of the Nineteenth Century taking as a basis George Pellissier's Le Mouvement Littéraire au XIXe Siècle. Collateral reading. Open to students who have completed Course B. Tu., Th., 9. Professor Baillot.

F. *Old French and Early French Literature*—Lectures on phonology and morphology. The texts to be read are: La Chanson de Roland; Aucassin et Nicolette; Erec et Enide. Open to students who have completed Course B. and to others by special permission. Tu., Th., 10. Professor de Salvio.

E. *Advanced French*—Topics closely related to those of Courses C and D; students are expected to carry on special studies with prepared papers. Open to students who have completed Course C or D. *Credit, two year-hours.* Tu., Th., 3. Professor Baillot.

H. *Lectures on French Literature*—Open to students who have completed Course C or D. *Credit, two year-hours.* Th., 11. Professor Baillot.

J. *The Theater of the Seventeenth Century; Advanced Course*—Open to students who have completed Course C or D. *Credit, two year-hours.* Hours to be arranged. Professor Baillot.

ITALIAN

A. *Elementary Course*—Grandgent's Grammar and Composition. Bowen's Reader; Goldoni's La Locandiera; Fogazzari's Pereat Rochus; Gherardi del Testa's L'oro e l' orpello. Credit will not be given unless the full course is completed. Mon., Wed., Fri., 11. Professor de Salvio.

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*B. *Literature of the Nineteenth Century*—Lectures on Modern Italian Literature. Manzoni's Promessi Sposi; D'Ancona e Bacci's Manuale della Letteratura Italiana, Vol. V; Verga's Cavalleria Rusticana ed Altre Novelle; Fogazzari's Fedele; Alfieri's Oreste. Open to students who have completed Italian A. *Credit, two year-hours.* Tu., Th., 11. Professor de Salvio.

*C. *Early Italian*—Lectures on Italian phonology and morphology. The literature of the Trecento. Monaci Crestomazia dei primi secoli; D'Ancona e Bacci's Manuale della Letteratura Italiana, Vol. I. Open to advanced students and to others who satisfy the instructor of their fitness to take the course. *Credit, two year-hours.* Hours to be arranged. Professor de Salvio.

SPANISH

A. *Elementary Course*—Hills and Ford's Grammar; Composition; Bransby's Spanish Reader; Valdes' José; Galdos' Dona Perfecta; Tamayos y Baus' Un Drama Nuevo. Credit will not be given unless the full course is completed. Mon., Wed., Fri., 8. Professor de Salvio.

B. *Composition and Conversation*—Advanced composition and review of the grammar. Conversation dealing with practical topics. Tu., Th., 9. Professor de Salvio.

*B1. *Literature of the Nineteenth Century*—The modern novel drama, and poetry. Mon., Wed., 2. Can be taken concurrently with Course B. Professor de Salvio.

C. *Literature of the Sixteenth and Seventeenth Centuries*—Lectures on the Golden Period of Spanish Literature. Reading from Cervantes (Don Quixote), Lope de Vega, Calderón. Tu., Th., 2. Professor de Salvio.

*D. *Old Spanish*—Lectures on Spanish phonology and morphology. Spanish literature to the fifteenth century. Texts: El poema del Cid, edited by R. Menendez Pidal; Adolph Keller's Alt-spanisches Lesebuch mit Grammatik und Glossar. Open to advanced students and to others who satisfy the instructor of their fitness to take the course. *Credit, two year-hours.* Time to be arranged. Professor de Salvio.

Scandinavian Languages

PROFESSOR ELMQUIST

MINOR: Six year-hours more advanced than Course AA1.

AA1. *Elementary Swedish*—Fort's Elementary Swedish Grammar, Selma Lagerlöf's "En Herrgardssägen" and "Nils Helgersson" Strindberg's "Sagor." Open to all students. Mon., Wed., Fri., 8. Professor Elmquist.

A1. *Modern Swedish*—Carlson's Grammar; Selma Lagerlöf's "Gösta Berlings Saga;" Helena Nyblom's "Det Ringer;" Tegnér's "Fritiofs Saga;" Runeberg's "Fänrik Stals Sägner;" selections from Heidenstam. Open to students who have completed Course AA1 or Course A2, or who have a speaking and reading knowledge of Swedish. Mon., Wed., Fri., 9. Professor Elmquist.

A2. *Modern Norwegian and Danish*—Olsen's Grammar; Björnson's Fortaellinger; Kielland's Novelletter, Pontoppidan's Det Forjaettede Land; one or two plays of Ibsen. Open to students who have completed Course A1 or who have a speaking and reading knowledge of Norwegian-Danish. Hours to be arranged. Professor Elmquist.

X. *Lectures on Scandinavian Mythology and Literature*—Does not require a knowledge of a Scandinavian language. Open to students who have a credit of thirty hours. Tu., Th., 4. Professor Elmquist.

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*B1. *Swedish Literature*—Representative writers of the nineteenth and twentieth centuries are read: Steffen's Svensk Litteraturhistoria. Open to students who have completed Course A1. Tu., Th., 11. Given in 1912-13 and in alternate years. Professor Elmquist.

C1. *Swedish Literature from the Reformation to the Year 1800.* Open to students who have completed Course A1. Tu., Th., 11. Given in 1911-12 and alternate years.

O. *Old Icelandic*—Sweet's Icelandic Primer. Prose selections. A number of poems from the Edda. Lectures on the literature and other subjects. Open to seniors and graduate students. *Two hours.* Hours to be arranged. Professor Elmquist.

*S. *Germanic Philology*—First semester—*Gothic.* Braune's Gotische Grammatik, Ulfilas (Stamm-Heyne-Wrede), Meringer's Indogermanische Sprachwissenschaft. Second semester—*Old Saxon.* Holthausen's Altsächsisches Elementarbuch. Selections from the Heliand. Loewe's Germanische Sprachwissenschaft. Streitberg's Urgermanische Grammatik (used for reference). This course may profitably be combined with German K or English Language D. Open to seniors and graduate students. *Credit, two to four year-hours.* Hours to be arranged. Professor Elmquist.

Semitic Languages

PROFESSOR EISELEN AND MR. RAPP

These courses are given in Garrett Biblical Institute and students electing them are subject to the regulations of that school.

HEBREW

MINOR: Courses A and B.

A. *Elements of Hebrew Language*—Inductive study of the Hebrew language upon the basis of Genesis, Chapters I-VIII. Open to all students. Tu., Wed., Th., Fri., 9. Mr. Rapp.

B. *Introduction to Hebrew Literature*—Exegetical and critical reading of selections from the prophetic and the poetic literature of the Hebrews. Open to students who have completed Course A. Wed., Fri., 11. Professor Eiselen.

C1. *Messianic Prophecy*—Study of the Messianic ideas and ideals of the Old Testament. Open to students who have completed Course B. First semester. Hours to be arranged. Professor Eiselen.

C2. *Studies in Hebrew Prophecy*—Exegetical and critical study of passages centering around the following topics: (a) The inspiration of the prophets. (b) The prophet as a statesman. (c) The prophet as a social reformer. Open to students who have completed Course B. Second semester. Hours to be arranged. Professor Eiselen.

C3. *Rapid Reading of Hebrew.* Rapid reading and translation of selections from different parts of the Old Testament. Open to students who have completed Course B. Hours to be arranged. Professor Eiselen.

C4. *Old Testament Problems.* Study of the more important problems in Old Testament criticism, history, and religion. Open to students who have taken or are taking Courses C1 and C2. Hours to be arranged. Professor Eiselen.

C5. *Seminar*—The religious life and the religious beliefs of the Hebrews, as shown in the activity and teaching of their religious leaders. Open to students who have taken or are taking Courses C1 and C2. Hours to be arranged. Professor Eiselen.

ASSYRIAN

*D4. *Archaeology and the Old Testament*—The excavations in Babylonia-Assyria, and their bearing upon the literature and religion of the Old Testament. Open to students who have completed Course B. Hours to be arranged. Professor Eiselen.

ARAMAIC

*E. *Elementary Course*—Study of the Aramaic language and portions of the Old Testament. Open to students who have completed Hebrew A, or its equivalent. *Credit, one year-hour.* Hours to be arranged. Professor Eiselen.

Spanish

See Romance Languages and Literatures, page 153

Zoölogy

PROFESSOR LOCY, PROFESSOR HARPER, DR. HARGITT, AND MR. EDDY

MAJOR: Course A and six additional year-hours. MINOR: Course A and two additional year-hours not taken concurrently with Course A.

A. *Structure, Development, and Evolution of Animal Life*—A general educational course. Comparative study of living organisms; physiological side receiving much attention. First semester—Ob-

servations on the properties of living matter; a few selected types of invertebrated animals. Second semester—The basis of the doctrine of organic evolution is set forth and its present status indicated. A large part of the time of this semester is devoted to observations on the development of animals, using eggs of fishes, amphibia, and the chick. Open to those without previous instruction in zoölogy or biology; recommended to students who have had a year's work in the high school, for whom a special laboratory section is formed. Credit is not given unless the full course is completed. *Credit, four year-hours.* Lectures: Tu., Th., 9. Professor Locy. Laboratory sections: I, Mon., Wed., 8-10; II, Mon., Wed., 2-4; III, Tu., Th., 10-12; IV, Tu., Th., 2-4. Professor Locy, Dr. Hargitt, and assistants.

B3. *Physiology*—A course in human and general physiology. Lectures, recitations and class demonstrations. A two-hour laboratory period is at intervals substituted for one class-exercise a week. Open to all students. Wed., Fri., 2. *Credit, two year-hours.* Professor Harper. Given in alternate years with B2.

B1. *Comparative Anatomy and Physiology of Vertebrates*—First semester—Comparative Anatomy. Study of selected vertebrate types. The recitations and lectures are based on Weidersheim's Comparative Anatomy of Vertebrates. Second semester—Vertebrate Embryology; a discussion of the broader problems opened by study of the development of animals. Lectures and laboratory work. Open to students who have completed Course A. *Credit, four year-hours.* Wed., Fri., 9. Laboratory sections: Tu., Th., 8-10, 10-12. Professor Locy and Mr. Eddy.

B2. *Invertebrate Zoölogy*—The laboratory study is confined to forms found in this region. Field excursions are included. In addition to the structure and development of certain types, physiological problems are considered and recent studies upon animal behavior are illustrated in the laboratory work. *Credit, two year-hours.* Wed., Fri., 2. Professor Harper.

B4. *Sources of Biological Ideas from the Revival of Learning to the Present Time*—Historical lectures from the renaissance of science to the present, particular attention to the beginning, the growth, and the modification of fundamental doctrines and principles that have become fruitful in the nineteenth century. Intended primarily

for students taking other work in the department. Open to students who have completed Course A or its equivalent. *Credit, one year-hour.* Tu., 4. Given in 1911-1912 and in alternate years. Professor Locy.

B5. *Heredity*—A course of lectures, with readings and reports on recent work in heredity, designed to give an exposition and discussion of the principles underlying the improvement of races in animal breeding. Open to students who have completed Course A. *Credit, one hour.* Second semester, Tu., 9. Dr. Hargitt.

B6. *Animal Behavior*—Consultation of the recent literature on the behavior of the higher animals and a consideration of the more general principles, and discussion of the behavior of representatives of the lower groups. Lectures, reports, demonstrations, and occasional laboratory work. *Credit, one year-hour.* Mon., 4. Professor Harper.

C. *Cytology and Histology*—First semester—Cell-life and elementary histology; anatomy and physiology of the cell, microscopical structure of the elementary animal tissues; the general methods of microscopical technique. Second semester—Microscopical structure of the animal organs; the important special methods of microscopical technique. Text-books: Wilson's The Cell in Development and Inheritance and Piersol's Text-book of Histology. Open to students who have completed or are taking Course A. *Credit three year-hours.* Mon., 9. Laboratory Wed., Fri., 8-10, 10-12. Professor Harper.

D. *Physiology*—Intended for students preparing for medicine. Includes the work of the first year of Physiology in the Medical School, and is accepted in full for that course. Based on Hall's text-book and laboratory manual. Open to students who have completed Courses A and B1 or may be taken concurrently with Course B1. *Credit, three year-hours.* Tu., Th., 9, Sat., 10-12. Professor Harper.

E. *The Teaching of Zoölogy*—Second semester, analysis of methods, text-books, and material for teaching zoölogy in high schools. Open to students who have completed Courses A and B1. May also be taken concurrently with B1. *Credit, one hour.* Fri., 10. Professor Locy and Dr. Hargitt.

F. *Topics of Investigation*—An introduction to original research. Limited problems are assigned and worked out under the direction of the professor in charge. Consultation of the literature

bearing on the problem; a thesis embodying results. A reading familiarity with French and German is essential. Open to students who have completed Courses A, B1, and C. Credit and hours to be arranged. Professor Locy and Professor Harper.

G. *Research Work*—Similar to Course F, but with broader scope. The thesis must embody a critical review of the important literature and must show substantial conclusions based upon the work of the student. Means of publication will be found for worthy papers. For graduate students who have completed the equivalent of the courses designated above; may be elected for either ten or for fifteen hours of credit. Hours to be arranged. Professor Locy.

Course in Human Anatomy

A course in Human Anatomy—Dissection and Osteology—is given in the laboratories of the College of Liberal Arts for first year Medical students. This course is open only to those who have completed the work of the first two years in the College of Liberal Arts and have met the entrance requirements to the Medical School. It is not given unless elected by as many as five students. Lectures and laboratory, five afternoons a week. *Credit, six hours each semester.* Laboratory fee, thirty dollars a semester.

Courses in the Principles of Art

The following courses in the Principles of Art are offered during the year 1911-12 by Miss Stella Skinner, University Guild Lecturer on Art. The lectures and laboratory work are given in the Guild Rooms in Orrington Lunt Library.

A1. (a) *Fundamental principles* underlying art expression; their practical applications illustrated by typical examples. (b) The development of the dwelling, its decoration and furnishings from primitive to modern times. Historic periods in domestic architecture, ornament, and furniture; their influence on twentieth century styles. Lantern slide illustrations. Text-book, Candee, "Decorative Styles and Periods." Monthly field trips to exhibitions.

Open without fee to students in regular courses in the College of Liberal Arts, College of Engineering, and School of Music. To persons not so enrolled, a fee of three dollars a semester is charged. Credit, two hours each semester. Tu., Th., 3.

A2. *Laboratory exercises connected with Course A1.* Fee to students enrolled in regular courses in the College of Liberal Arts, College of Engineering, and School of Music, three dollars a semester. To others, the fee for Courses A1 and A2 is five dollars a semester. Credit, one hour each semester. Mon., 3-5.

B2. *Advanced and Applied Design.* Laboratory exercises in continuation of the study of Art Principles. Open to students who have completed Course A2 and to others with equal preparation. Laboratory fee, three dollars a semester. Credit, two hours each semester. Time to be arranged.

C. *History of Art*—Italian School. (a) Early Renaissance; Masaccio to Leonardo. (b) High Renaissance; Leonardo to Veronese. (c) Decadence. Illustrated by lantern slides and photographs. "University prints" for students. Monthly field trips to exhibitions. Lectures, Wednesday at 4, Orrington Lunt Library. Open without fee to students who have completed Course A1, and to college Juniors and Seniors, or may be taken in conjunction with Course A1 by any but Freshmen. Credit, one hour each semester.

Summer Courses

Courses are offered during the summer vacation by members of the College Faculty, intended primarily for teachers and for undergraduates wishing to make up deficiencies, but open to any persons qualified to take them. These courses bear appropriate college credit and special announcement is made of them from year to year.

The following courses were offered during the summer of 1911, each course continuing for a period of six weeks beginning June 26th.

CHEMISTRY

General Chemistry—An elementary course for beginners. Credit, four semester hours.

Household Chemistry—Credit, two semester hours.

Sanitary Chemistry—Credit, three semester hours.

ECONOMICS AND SOCIOLOGY

Labor Problems—Credit, two semester hours.

Sociology—Credit, two semester hours.

Economic History of the United States—Credit, three semester hours.

EDUCATION

Education from a Sociological Point of View—Credit, three semester hours.

School Teaching and Management—Credit, two semester hours.

Philosophy of Education—Credit, three semester hours.

ENGLISH LANGUAGE AND LITERATURE

English Literature from Dryden to Browning—Credit, two semester hours.

The Short Story—Credit, two semester hours.

English for Teachers—Credit, three semester hours.

Composition and Rhetoric—Credit, three semester hours.

Historical English Grammar—Credit, two semester hours.

Elementary Old English—Credit, three semester hours.

Romanticism in England—Credit, two semester hours.

Victorian Poetry—Credit, two semester hours.

GEOLOGY

General Geology and Physiography—Credit, four semester hours.

General Geology and Physiography of the United States—Credit, two semester hours.

Introduction to the Study of Minerals and Rocks—Credit, two semester hours.

GERMAN LANGUAGE AND LITERATURE

Elementary German—Credit, three semester hours.

Intermediate German—Credit, three semester hours.

Goethe's Life and Works—Credit, three semester hours.

GREEK

Greek and Roman Art and Mythology—Credit, three semester hours.

HISTORY

The Renaissance—Credit, two semester hours.

Roman History—Credit, two semester hours.

LATIN

Cicero, Senectute and Letters—Credit, three semester hours.

Horace, Odes—Credit, three semester hours.

MATHEMATICS

Plane Trigonometry—Credit, three semester hours.
Plane Analytical Geometry—Credit, three semester hours.
Algebra—For entrance credit.
Algebra—Credit, three semester hours.
Solid Geometry—Credit, three semester hours.
The Principles of Algebra and Geometry—Credit, three semester hours.

PHYSICS

Elements of Physics—Entrance credit, one-half unit.

PSYCHOLOGY

General Psychology—Credit, three semester hours.
Educational Psychology—Credit, two semester hours.
Psychology of the Abnormal Mind—Credit, two semester hours.

ROMANCE LANGUAGES

Elementary French—Credit, three semester hours.
Intermediate French—Credit, two semester hours.
Advanced French—Credit, two semester hours.
Elementary Italian—Credit, two semester hours.
Elementary Spanish—Credit, two semester hours.

ZOÖLOGY AND PHYSIOLOGY

General Physiology—Credit, three semester hours.
Zoölogy—Credit, three semester hours.

Courses in Professional Schools

The courses enumerated below, given in the professional schools of this University or in Garrett Biblical Institute, are open to students in the College of Liberal Arts for credit toward a bachelor's degree under the conditions named in each case. They may not, however, in any case be counted in fulfillment of the year of residence in the College of Liberal Arts required of all candidates for an academic degree.

MEDICAL SCHOOL

The following courses in the Medical School may be elected by students in the College of Liberal Arts who have secured on record

sixty hours of credit, including the prescribed courses for a degree as shown on page 109, at least thirty hours of which has been done in residence under the faculty of this College. Credit in these courses will not be allowed if corresponding courses in the College of Liberal Arts have been completed.

Students electing any course in the Medical School pay the tuition fees of that school and are released from tuition fees in the College of Liberal Arts.

M1a—*Anatomy, Dissection and Osteology.* Lectures and laboratory, five three-hour periods a week. *Credit six hours each semester.* (Anatomy a, 1, 2, and 3.) Professor Ranson and assistants.

M1b—*Histology and Embryology.* Lectures, two hours a week through the year; laboratory, two three-hour periods a week through the year. *Credit, three hours each semester.* (Anatomy b, 1 and 2.) Professor Prentiss and assistants.

M1c—*Chemistry.* First semester, Organic Chemistry and Volumetric Analysis; second semester, Physiological Chemistry. Three lectures and two laboratory periods a week. *Credit, four hours each semester.* (Chemistry a, b, c, d, e.) Professor Long and Mr. Johnson.

M1d—*Physiology.* Lectures and demonstrations three hours a week; laboratory, two periods a week, second semester. *Credit, four semester hours.* (Physiology, a and b.) Professor Hall and assistants.

M2a—*Anatomical Neurology.* Lectures and laboratory, three three-hour periods a week, second semester. *Credit, three semester hours.* (Anatomy c.) Professor Ranson and assistants.

M2b—*Physiology and Physiological Neurology.* Lectures and recitations, four hours a week; laboratory, two periods a week, second semester. *Credit, six semester hours.* (Physiology c, d, e, f.) Professor Hall, Professor Grinker, and assistants.

M2c—*Bacteriology.* Recitations, one hour a week. Laboratory, three two-hour periods a week, first semester. *Credit, four semester hours.* (Pathology and Bacteriology, b and c.) Professor Zeit and Dr. Glenn.

M2d—*Etiology.* Lectures and demonstrations two hours a week throughout the year. *Credit, two hours each semester.* (Pathology and Bacteriology, a.) Professor Zeit.

M2e—*General Pathology.* Lectures, demonstrations, and recitations, three hours a week. Laboratory, two three-hour periods a week, first semester. *Credit, five semester hours.* (Pathology and Bacteriology, d, e, f.) Professor Zeit and assistants.

M2f—*Pharmacology.* Lectures and recitations, three hours a week. Laboratory, three hours a week through the year. *Credit, four hours each semester.* (Pharmacology, a, b, c, d.) Professor McGuigan.

LAW SCHOOL

The following courses in the Law School may be elected by students in the College of Liberal Arts who have secured on record ninety semester hours of credit including the required courses as shown on page 109. Credit in these courses is not given until the full course is completed and students electing any of them pay the Law School fees.

L1a—*Contracts.* Three lectures a week through the year. *Credit, eight semester hours.* Professor Costigan.

L1b—*Torts, including Master and Servant.* Three lectures a week, first semester; two lectures a week, second semester. *Credit, seven semester hours.* Professor Wigmore.

L1c—*Property.* One lecture a week, first semester; three lectures a week, second semester. *Credit, six semester hours.* Professor Kales.

L1d—*Crimes and Criminal Procedure.* Three lectures a week, first semester. *Credit, four semester hours.* Professor Keedy.

L1e—*Common Law Pleading and Procedure.* Three lectures a week, second semester. *Credit, four semester hours.* Professor Keedy.

L1f—*Damages.* One lecture a week, second semester. *Credit, one semester hour.* Professor Schofield.

COLLEGE OF ENGINEERING

The following courses in the College of Engineering are open to students in the College of Liberal Arts, and may be elected for credit toward a bachelor's degree.

A1. *Mechanical Drawing*—Two afternoons a week. A one-semester course given each semester. *Credit, two semester hours.* Laboratory fee six dollars. Professor Hammer.

A2. *Freshmen Shop Work*—Two afternoons a week. A one-semester course given each semester. *Credit, two semester hours.* Laboratory fee, eight dollars. Professor Basquin, Professor Hammer and Mr. Stanford.

B1. *Sophomore Shop Work*—One afternoon a week. *Credit, one year-hour.* Open to students who have completed Course A2. Laboratory fee, four dollars. Professor Basquin and Mr. Stanford.

B2. *Surveying*—Two recitations and one half-day in the field each week. *Credit, three year-hours.* Open to students who have completed Courses A1 and Mathematics A3. Laboratory fee, five dollars. Professor Burger.

B3. *Summer Surveying*—A six-weeks summer course in camp. Open to students who have completed Course B2. *Credit, six semester hours.* Laboratory fee, fifteen dollars. Professor Burger and Professor Hammer.

C1. *Descriptive Geometry, Kinematics, and Graphical Statics*—One recitation period and two half-days of drawing each week. *Credit, three year-hours.* Open to students who have completed Courses A1 and Mathematics A3. Laboratory fee, three dollars. Professor Hammer.

D1. *Contracts and Specifications*—One afternoon a week. Second semester. *Credit, two semester hours.* Open to students who have sixty hours of credit. Mr. Allen and Mr. Liessmann.

D2. *Journal Meeting*—One afternoon a week. *Credit, two semester hours.* Open to students who have taken or are taking Course D3, D4, D5, or D6. Professor Hayford.

D3. *Structural Mechanics*—Two recitations and one morning laboratory period a week. *Credit, six semester hours.* Open to students who have completed Physics B1, and Mathematics B1. Laboratory fee, five dollars. Professor Basquin.

*D4. *Heat Engines*—Credit three semester hours. Second semester only. Open to students who have completed Physics B. Laboratory fee, three dollars. Professor Bauer.

D6. *Electrical Engineering*—Two recitations and one afternoon laboratory period a week. *Credit, three year-hours.* Open to students who have completed Physics C and Mathematics B1. Laboratory fee, three dollars. Professor Bauer.

E1. *Thermodynamics*—First semester. Open to students who have ninety semester hours of credit including Mathematics B1 and Physics B1. *Credit, four semester hours.* Mon., Tu., Wed., Fri., 10. Professor Basquin.

E2. *The Public Relations of Engineers*—Second semester. Open to students who have taken or are taking Courses E1, E3, E4, E5, or E6. *Credit, two semester hours.* Tu., Th., 8. Professor Hayford.

E3. *Engines*—Two recitations and one half-day laboratory period a week. Open to students who have taken or are taking Course E1. *Credit, six semester hours.* Professor Bauer.

E4. *Hydraulic Engineering*—Two recitations and one half-day laboratory period each week. Open to students who have ninety semester hours of credit, including Mathematics B1 and Physics B1. *Credit, three semester hours through the year.* Laboratory fee, three dollars. Professor Burger.

E5. *Advanced Electrical Engineering*—First semester. Two recitations and one half-day laboratory period a week. Open to students who have completed Course D6. *Credit, three semester hours.* Professor Bauer.

E6. *Power Plant Engineering*—Second semester. Two recitations and one half-day laboratory period a week. Open to students who have completed Course E5. *Credit, three semester hours.* Professor Bauer.

SCHOOL OF MUSIC

Students in the College of Liberal Arts may elect courses in the School of Music as described on page 143. Not more than twenty semester hours of this work may be counted toward a degree.

GARRETT BIBLICAL INSTITUTE

The following courses in Garrett Biblical Institute may be elected by students in the College of Liberal Arts who have sixty hours of credit toward a degree, but no student may present more than thirty hours of credit from these courses. Students electing them are subject to the regulations of the Institute.

A. *Christian Doctrine*—Three hours a week. Professor Terry.

B. *New Testament Greek*—(a) The Gospel according to Luke and the Book of Acts, critical and exegetical study, three hours a

week; (b) The Pauline Epistles, introduction, analysis, and exegesis, three hours a week; (c) The remaining books of the New Testament, textual, critical, and exegetical study, three hours a week. Professor Hayes.

C. *Hebrew, Assyrian, Aramaic—See page 155.* Professor Eiselen and Mr. Rapp.

D. *Church History*—Post-Nicene History of the Christian Church. Christianity within the Roman Empire. The Church and Mediaeval Society; the Reformation; the Modern Church. Three hours a week. Mr. Hess.

Courses in Combination

Certain courses announced in the preceding pages have a more or less direct bearing on the professional career which the student may have in contemplation, and elective studies may well be chosen with this in view. The following paragraphs contain the regulations under which a student by a proper combination of courses in the College of Liberal Arts and a professional school may secure an academic and a professional degree in a minimum of time.

The limited credit allowed toward a bachelor's degree for studies pursued in a professional school is restricted to work done in the schools of Northwestern University, and time spent in a professional school can in no case be counted toward the requirement of one year of residence in the College of Liberal Arts demanded of all candidates for a degree.

ACADEMIC AND MEDICAL COURSES

Students who wish to combine courses for an academic and a medical degree may do so with economy of time by a proper choice of studies. The first year of the medical course may be taken either in Evanston or in Chicago, and students while still resident in Evanston may so far complete the medical course that only three years of work will remain to be done in Chicago.

Before registering for medical studies on this combined program the student must have completed two full years of work in the College of Liberal Arts, sixty semester hours, including all the prescribed courses for a degree as listed on page 109. He must also meet the full requirements for admission to the Medical School which demand the completion of introductory courses in chemistry (Chemistry A and B1), an introductory course in zoölogy (Zoölogy A), and a similar

course in physics (Physics A). If possible the student should carry the course Zoölogy C concurrently with Zoölogy A so as to reduce the amount of work due in the following year. With this preparation he may register both as a Liberal Arts student and as a medical student and may elect the studies of the first year of Medicine either in Evanston or in Chicago. These studies as given in Evanston are as follows:

Anatomy—Human Anatomy, Dissection and Osteology, five afternoons a week—see page 159.

Microscopic Anatomy and Embryology—Cytology and Histology, one lecture and two laboratory periods a week (Zoölogy C, if not already completed). Comparative Anatomy and Physiology of Vertebrates, two lectures and two laboratory periods a week (Zoölogy B1) —see page 157.

Chemistry—Organic Chemistry, three lectures and two laboratory periods a week, first semester (Chemistry B2). Volumetric Analysis, two lectures and two laboratory periods a week, second semester (Chemistry C). Physiological Chemistry, three lectures and one laboratory period a week; second semester (Chemistry C3)—see page 116.

Physiology—Two lectures and one laboratory period a week (Zoölogy D)—see page 158.

The second year of medicine must be taken at the Medical School in Chicago, but the work of this year consists mainly of courses which may be elected by students in the College of Liberal Arts for credit toward a bachelor's degree (see page 162), and hence it may be applied toward both an academic and a medical degree.

The Bachelor's degree in Arts or Science is conferred when the requirements of the College of Liberal Arts for such degree are fully met, and the degree of Doctor of Medicine when the full medical course is completed. The minimum time for the two degrees is six years. Students registered in the Medical School pay the regular tuition fees for that school whether their work is taken in Evanston or in Chicago.

Students transferring from other colleges or universities wishing to obtain an academic degree from this university must spend at least one year in residence in Evanston and must complete a full year of work in the class rooms and laboratories of the College of Liberal Arts. They must meet all the requirements for an academic degree as described on page 109, but if their previous training permits they may during the year of residence in Evanston register also as students

in the Medical School and elect the studies of the first year of the medical course.

ACADEMIC AND LAW COURSES

A student in the College of Liberal Arts who has secured ninety hours of credit, including the required studies described on page 109, and the requirements for a major and a minor, may thereafter elect courses in the Law School as shown on page 261 to the amount of thirty hours, and may thus complete the work for the collegiate bachelor's degree. Students electing such courses continue their registration in the College of Liberal Arts, but they pay the fees of the Law School.

Students transferring from other colleges with three years of credit aggregating on the records of this College not less than seventy-two semester hours, and registering for degrees in both Liberal Arts and Law, may fulfill the residence requirement in the College of Liberal Arts by the completion of three courses aggregating not less than eighteen semester hours, taken in the class rooms of the College of Liberal Arts in Evanston, provided that in all cases the prescribed courses for a degree (see page 109) are met and that Law courses and College courses are carried concurrently.

ACADEMIC AND THEOLOGICAL COURSES

Students in the College of Liberal Arts who have sixty semester hours of credit and who wish to shorten the time for securing degrees in Arts and Theology, may elect the courses in Garrett Biblical Institute enumerated on page 394 to the amount of thirty semester-hours, thereby reducing the time for the two degrees by one year.

Since exegesis is an important part of a theological course, students contemplating the study of Theology should secure while in College a ready command of the Greek and Hebrew languages. A knowledge of German also will prove serviceable.

DENTISTRY

Students in the College of Liberal Arts who intend to take up the study of Dentistry are advised to pursue courses in Latin, English, Mathematics, and the Sciences, including Physics. Those who have completed Zoölogy D, Zoölogy C, Chemistry A, and Chemistry B, will be given advanced credit in the Dental School for Physiology a, b, c, d, Histology a, b, c, and Chemistry a, b, c, g.

ACADEMIC AND PHARMACY COURSES

Students who have secured ninety semester hours of credit in the College of Liberal Arts, including the prescribed courses for a degree, and the requirements for a major and a minor, may enter the School of Pharmacy, and fulfil the total requirements for the bachelor's degree by satisfactorily completing the work of the first year in the course for the degree of Pharmaceutical Chemist.

Credit in the College of Liberal Arts for work done in the School of Pharmacy may not exceed thirty semester-hours, and it may not include any items for which credit in the College has already been secured. Students taking work in the School of Pharmacy must pay the fees of that school.

Special Preparation for the Professions

LAW

A full four-year course in College is recommended by the faculty of the Law School as preparatory to the study of law and students are urged to complete as much as possible of a College course before entering the Law School. The following program, which meets the requirements for a bachelor's degree, is suggested by the Law faculty as best adapted to the needs of Law students:

First Year—Mathematics A1; English Language A; Latin A; French or German; History A.

Second Year—English Literature AA or AB; English Language B; Latin B or D (or German or French); History H or BC; Economics A; a science course.

Third Year—English Language I; History B, F, or H1; Economics B1 or B4; Philosophy A1; Elocution A; English Literature B, H, or I.

Fourth Year—Philosophy A2 or B1; Elocution B; Psychology A1; History and Economics.

Students who prefer to elect the work of the senior College year in the Law School should follow substantially the program here outlined. For those intending to spend but one or two years in College the Law faculty recommends a slightly modified program, substituting work in history, elocution, logic, and economics for mathematics, modern languages, and science. A modification of this kind is allowed to students who have made a preliminary enrollment in the Law School and who are otherwise qualified to carry such courses. A more detailed statement of this modified program for such students will be found on page 258 of this catalogue.

BUSINESS OR THE PUBLIC SERVICE

Students preparing for a business career or wishing to enter the public service will find ample opportunity for study along helpful lines in the departments of Economics and History. The program of required studies for the bachelor's degree permits the student to devote to special study in these departments nearly the whole of the third and fourth years, and some time also in the first and second years.

The following schedule of courses is suggested for such students:

First Year—Mathematics A1, 3 hours; English Language A, 3 hours; French or German, 3 hours; Chemistry A or Geology A1, 4 hours; History A, 3 hours.

Second Year—German or French, 3 hours; English Literature AA or AB, 2 hours; Economics A, 3 hours; History, 3 hours; elective work, 4 hours.

Third Year—Physics or other science, 4 hours; Spanish, 3 hours; History, 3 hours; Economics, 5 or 6 hours.

Fourth Year—History, 3 hours; Economics, 6 hours; Geology A2, 4 hours; elective work, 3 hours.

FOREIGN DIPLOMATIC SERVICE

Students who wish to prepare for the consular or other foreign service will find ample opportunity for helpful study in the departments of Modern Languages, Economics, and History. The program of required studies for the bachelor's degree permits the student to devote to study in these departments a very large proportion of his time.

Students preparing for the foreign service are advised to secure a good reading knowledge of two modern languages besides English, an acquaintance with the elements of two sciences, and a thorough grasp of those subjects required in the United States' consular examinations. The most important of these are: French, German, or Spanish; the resources, commerce, history, and government of the United States; the elements of political economy, trade statistics, and international, commercial, and maritime law; political and commercial geography; modern history since 1850, and diplomacy of Europe and the Far East.

The following schedule of courses is suggested for such students:

First Year—Mathematics A1, 3 hours; English Language A, 3 hours; French or German, 3 hours; Chemistry A, 4 hours, or Geology A2, 4 hours; History A or E, 3 hours.

Second Year—German or French, 3 hours; English Literature AA or AB, 2 hours; History BC, 3 hours; Economics A, 3 hours; elective work, 4 hours.

Third Year—Physics or other science, 4 hours; Spanish, 3 hours; History G, 3 hours; History N, 3 hours; Economics B2, 3 hours.

Fourth Year—History K, European Diplomacy, and S1, American Diplomacy, 4 hours; Economics B6, Administration, 3 hours; Economics B7, Resources and Foreign Trade of the United States, 2 hours; Economics C2, Public Finance and Taxation, 2 hours, or Economics C3, Money, Banking and Corporation Finance, 2 hours; elective work, 3 hours.

TEACHING IN SECONDARY SCHOOLS

Students expecting to teach in secondary schools will find it advantageous to elect in College a considerable number of courses having a professional bearing. A major should be taken in the department in which the student wishes to be specially qualified, and a minor, or if possible a second major, in a closely related department. Beginners in high schools are frequently required to teach more than one subject and it is a wise precaution to be qualified in at least two departments. The courses in the Department of Education are designed to meet the needs of students seeking an acquaintance with the progress of education and the development of educational theory as liberal culture as well as for those desiring professional training for teaching.

The following schedule is suggested for prospective teachers:

First Year—English Language A, 3 hours; Mathematics A1, 3 hours; two of the following: Latin A, Greek A, French A, German A, 6 hours.

Second Year—English Literature AA or AB, 2 hours; Education A, General History of Education, 3 hours; Science, 4 hours; elective, including a course in the major subject and also a course in the minor subject, 7 hours.

Third Year—Psychology A1, General Psychology 3 hours; Psychology B2, Educational Psychology, 2 hours; Education B or J, 3 hours; major subject, 3 hours; minor subject, 3 hours; elective work, 3 hours.

Fourth Year—Education K or D, 3 hours; major subject, 6 hours; elective work, which may well include work to complete a second major, 7 hours.

Special Testimonial for Prospective Teachers—To meet the increasing demand on the part of School Boards for teachers who have had professional training, the College Faculty has authorized the issuance from the Registrar's Office, on request, of a testimonial supplementary to the Bachelor's diploma, bearing the signatures of the Registrar and the Secretary of the Faculty and certifying that the applicant has completed with satisfactory credit certain enumerated courses in Education and Psychology. The testimonial further specifies the department or departments in which the applicant has completed the major or minor requirement, and which he is deemed competent to teach.

Only those persons are eligible to this testimonial who have completed the requirements for a degree, including at least the minor in Education, and one course in Psychology.

Requirements for Degrees

The degrees of Bachelor of Arts and Bachelor of Science are conferred on the recommendation of the faculty of the College of Liberal Arts subject to the following provisions:

1. The candidate for a Bachelor's degree must have pursued studies in residence in the College of Liberal Arts of Northwestern University for at least one college year before the degree is conferred.

2. An application for this degree must be filed with the Registrar, on or before the last Saturday in May in the year next preceding that in which the degree is to be conferred. Application forms are provided by the University.

3. All prescribed courses (see pages 109, 110) must be completed, and, in addition, elective courses sufficient to make a total credit of one hundred and twenty hours. The courses completed must include the major work in at least one department and the minor work in at least one other department.

4. Of the total credit presented for the degree, not more than one-fifth of the work done under the College Faculty may be of grade D.

5. No student who has not removed all entrance conditions by the first of October in any year and secured on record a total of at least eighty-four hours of credit including the required studies of the first year can be recognized as a candidate for a degree at the close of that year.

6. No student against whom complaint has been made that bills for purchases or for contracts made by him, remain unpaid, will be

recommended for graduation until satisfactory evidence is presented that such bills have been adjusted or that the claims on which they are based are unwarranted, and no student who is delinquent in the payment of tuition or other fees, or against whom the University holds unpaid notes for tuition or other indebtedness, will be given a diploma of graduation until such indebtedness has been fully paid.

Prizes and Honors

SCHOLARSHIPS

First Year Scholarships—Fifty scholarships are awarded annually to select members of the freshmen class, upon applications endorsed by the principal and faculty of the secondary school from which the applicant graduates. The applicant must meet the full entrance requirements to College and must present certificates from the teachers in his secondary school for excellence of character, physical vigor, manliness, and promise of usefulness as a citizen. The award is made at the University by a committee of the College faculty.

University Beneficiary Scholarships—The University awards annually a number of beneficiary scholarships to meritorious students who, except for such help, would be unable to continue their studies. A satisfactory standard of conduct and scholarship is essential to an award and pecuniary need is taken into consideration. These scholarships cover the whole or a part of the undergraduate tuition and applications must be made not later than the first day of May.

Methodist Episcopal Church Scholarship—This scholarship, yielding annually the interest on seven hundred and fifty dollars, was founded by the First Methodist Episcopal Church of Evanston for the benefit of a student member of that church, and is awarded by the officers of the church.

University Guild Scholarship—This scholarship, founded by the University Guild of Evanston, affords to a young woman an income equal to the College tuition fee. The holder is responsible for certain duties in the Guild Rooms.

Colonial Dames Scholarship—To encourage the study of American History and to promote the spread of American principles among the youth of Chicago, especially among those of foreign birth or parentage, the Society of the Colonial Dames of America in the State of Illinois has established a scholarship affording to the holder one hundred and fifty dollars annually. Competition for this scholar-

ship is open to graduate and advanced undergraduate students and the award is based on a knowledge of American History and the ability to interest others in that study. The successful contestant is required to conduct a class in American History and Civil Government one evening a week, for boys and young men in Northwestern University Settlement, Chicago. At the time the award is made candidates shall have completed Courses H and BC in History, and they shall pass a qualifying examination in the subject matter of these courses. The award is made on the basis of this qualifying examination and the general fitness of the candidates to meet the aims of the scholarship.

Rufus H. Sage Scholarship in the College of Liberal Arts—From the income of a bequest of two thousand dollars in the will of the late Mrs. Ellen Sage, a scholarship has been established and is awarded annually. Additional bequests from the same estate provide for scholarships in the Medical School and in the Law School.

HONORS AND DISTINCTIONS

The following system of honors and distinctions has been adopted as an incentive to high scholarship:

1. At the close of the freshman year the names of one-fourth of the students promoted to the sophomore class, those making highest scholarship records,—one-fourth of the men and one-fourth of the women—shall be posted in alphabetical order as receiving honorable mention for the work of the year; and, in addition, the ten men and the ten women having highest rankings shall receive special marks of distinction. In computing standings all work done by the student in college courses, and only such work, shall be taken into account.

2. At the close of the sophomore year the names of one-sixth of those who have secured thirty hours of credit during that year and have been promoted to the junior class—one-sixth of the men and one-sixth of the women—shall be posted as in the case of freshmen, as receiving honorable mention for the work of the year. In cases of pre-eminent merit "highest honors" may be awarded. In computing these standings only work done under the Faculty of the College of Liberal Arts shall be taken into account.

3. For general excellence throughout the full course, a degree may be conferred "with distinction" or "with highest distinction," and such award shall be recorded on the candidate's diploma and shall be entered in the catalogue of graduates. A degree "with highest distinction" may be given to not more than five per cent of those completing the requirements for a bachelor's degree in any one year—

five per cent of the men and five per cent of the women—and a degree "with distinction" may be given to not more than the next following ten per cent.

4. Junior and Senior honors may be awarded for distinguished scholarship in two or more departments, and these shall be announced at Commencement. Any department of instruction may designate certain courses, or sections within courses, as "Honor Courses" or sections, which a candidate for Junior or Senior honors shall take as preparation for special examinations for such honors. For "Junior Honors" the candidate must have done special work in at least two departments, and for "Senior Honors" in at least three departments, these departments to be selected by the candidate with the approval of his adviser. Examinations for honors are conducted by a special committee appointed from the departments concerned.

PRIZES

The following prizes are open to candidates for a degree in the College of Liberal Arts. A successful contestant may not compete a second time for the same prize. Unredeemed failures in more than one department of study at the time for appointing contestants disqualify a student from competing for any prize.

The John B. Kirk Prize in Oratory—This prize of one hundred dollars was established in 1877 by Mr. James Kirk of Evanston, and is now the gift of Mrs. John B. Kirk. It is awarded each year for excellence in original oratory, under the following regulations:

1. Orations submitted in competition must not exceed two thousand words and must be typewritten.

2. They must be deposited with the Registrar not later than noon of the third Saturday of January.

3. Any student of the University who has not received a bachelor's degree is entitled to compete.

4. The four contestants receiving from a committee of the Faculty the highest marks in thought and composition for their original orations shall receive the sum of fifteen dollars each and shall be entitled to participate in a public contest.

5. The public contest shall be held on the evening of the second Friday in March. The contestant who receives the highest marks in this contest, special emphasis being laid upon interpretation and delivery, shall receive the additional sum of forty dollars and shall be entitled to represent the University in the Northern Oratorical League.

6. The successful competitor in the public contest shall be known

as the Kirk Prize winner, and the names of the remaining three contestants shall appear in the University publications as receiving honorable mention. The winner of the Kirk Prize shall present to the donor a typewritten copy of his oration.

The Harris Prize in Political and Social Science—A prize of one hundred dollars, the gift of Mr. Norman Wait Harris, of Chicago, is awarded to the writer of the best essay on an assigned topic in the department of Economics, Finance, and Administration.

1. No undergraduate student is eligible for this prize unless he shall have completed at the time of making the award the equivalent of Course A and at least three additional year-hours in Economics.

2. Essays offered in competition must contain not less than ten thousand words, and be either printed or typewritten. If typewritten, they must be on letter paper of a good quality, of quarto size, with a margin of not less than one inch at the top, at the bottom, and on each side, so that they may be bound without injury to the writing. On the title-page of each essay must be written an assumed name, and under cover with the essay must be sent a sealed letter containing the real name of the writer and superscribed with his assumed name.

3. The copies of all essays submitted for this prize become the property of the University, and the essay receiving first place shall have endorsed upon it a certificate of that fact.

4. An essay submitted in competition must be deposited with the Registrar of the College before twelve o'clock noon on the first day of May.

5. The Faculty appoints three judges and the award is made for the essay declared to be the best by at least two of the judges, provided that the University reserves the right to make no award if, in the opinion of the majority of the judges, the best essay shall not be of sufficient merit.

The Gage Debate Prizes—Prizes aggregating one hundred dollars are given annually by the Honorable Lyman J. Gage for excellence in debate.

The recipients of these prizes are selected through a series of debates, held in the autumn of each year, to which students from all departments of the University are eligible. The winners of the Gage prizes become the representatives of the University in the annual contest of the Central Debating League.

The Sargent Prizes in Public Speaking—Two prizes of fifty and twenty-five dollars, respectively, endowed by Mr. George M.

Sargent, of Evanston, are given for excellence in public speaking, at a contest held on the third Friday of February.

1. Eight candidates are appointed by the Faculty from students who have completed not less than fifty hours of college work including Elocution B.

2. At least one of the prizes must be given for an oratorical effort. A declaration may not exceed twelve hundred words.

3. No prompting of the speakers will be allowed, and a failure of memory will exclude a competitor from consideration.

4. The award is made by a committee appointed by the Faculty, but composed of persons who are not members of that body.

The Orrington Lunt Prize—A prize of one hundred dollars, established in 1908 by Cornelia Grey Lunt, in memory of her father, Orrington Lunt, is awarded annually to the writer of the best essay on a subject in the departments of English Literature and History. The subject is assigned in the respective departments in alternate years. At the time of the award, the writer must have completed the major course of study in the related department. The essay should be typewritten, signed by an assumed name, and accompanied by the real and the assumed name in a sealed envelope. It must be deposited with the Registrar not latter than May 1. If no essay of sufficient merit is presented, the prize will not be awarded.

The E. P. Strandberg Stipendium—A prize of twenty-five dollars is offered by "Föreningen för svenskhetens bevarande i Amerika" and is awarded annually to the undergraduate student who achieves highest attainment in some one of the courses in Swedish (Scandinavian AA1, A1, B1, and C1). The prize is open to all students who may elect one of the courses named and is given entirely as a reward for industry and attainment in the year's work.

General Regulations

REGISTRATION

Every undergraduate student is required to register in person at the office of the Registrar before entering upon College work.

The registration days are the first Tuesday, Wednesday and Thursday of each semester. A student not registered at the close of this period is subject to a fee of two dollars for later registration.

On the registration days of the first semester the student must register for the work of the whole year. Changes may be made only with the consent of the Committee on Registration and of the

student's adviser. A course dropped without consent is regarded as a failure and is so recorded.

Each student is required to register for fifteen hours of work a week, unless permission has been obtained from the Committee on Registration to register for less or more. Prescribed studies take precedence of elective studies in the order in which they are prescribed. Two hours of laboratory work are credited as one hour. No credit is given for work not regularly registered.

Permission to register for more than fifteen hours will be granted only when the committee is satisfied that the student can carry the whole work creditably. A student engaged in outside work making a serious drain on his time or energy may not register for more than twelve hours.

If entrance conditions are not removed before the beginning of the second year of residence, the work necessary to fulfill the entrance requirements must be included in the regular registration for that year, and the total registration may not exceed sixteen hours.

Before completing his registration, the student is required to consult his faculty adviser and his registration papers must state the full amount of work to be undertaken each semester, whether in the College of Liberal Arts or elsewhere, and must indicate the number of hours devoted to each subject, and the school or department in which it is to be done.

Students of the College of Liberal Arts desiring to take work in another School of the University must first obtain consent from the faculty of the College of Liberal Arts and from the faculty of the School in which the work is to be taken, and they must file such consent with the Registrar before beginning the work. Failure to comply with this regulation will be deemed sufficient cause for cancellation of the entire registration.

At the time of registration the student obtains from the Registrar his tuition bill for the semester. This must be presented immediately at the Business Manager's Office for payment.

CLASSIFICATION OF STUDENTS

Students in the College of Liberal Arts are grouped in four classes according to their credits in the office of the Registrar. The basis for their classification is as follows: Students with not less than eighty-four semester hours of credit, who have completed all the courses prescribed for the first two years for the degree of Bachelor of Arts or Bachelor of Science, are ranked as Seniors; students with not less than fifty-four semester hours of credit, who have completed the work required for the first year, are ranked as Juniors;

students with not less than twenty semester hours and with no entrance conditions are ranked as Sophomores; all others not registered as Special Students are classified as Freshmen, without regard to the date of admission.

EXAMINATIONS

Regular Examinations—These are held at the close of each semester in the studies of that semester. Any student whose daily work has not been satisfactory may be excluded from examination at the option of the instructor.

Second Examinations—These are set for students who have been absent from a regular examination, or who have failed to receive a passing grade at a regular examination. Second examinations are held on the first Wednesday in the first semester, on the first Saturday in the second semester, and on the Monday following Easter.

No student may take more than one second examination for the same item of credit, and such second examination must be taken within nine months from the date of the regular examination at which credit should have been obtained. Students absent from the regular examinations of the first semester are admitted to the second examinations in February, only in case of illness or other urgent necessity, and by consent of the instructor in charge.

Additional Examinations—Students absent from class exercises in any course in excess of the limit are required to take an examination in that subject in addition to the regular examination before credit is allowed. These examinations fall on the last Friday of the semester and can be taken at no other time. Students absent from a required additional examination are held to take that examintion at the next date set, and no credit can be given for the course until this examination is passed.

Special Examinations—Examinations may not be given at times other than those specified above without permission of the Faculty. For any examination given out of regular time a fee of two dollars is charged.

GRADES OF SCHOLARSHIP

At the end of each semester the standing of a student in each of his courses is reported by the instructor to the Registrar and is entered of record. Standing is expressed, according to proficiency, in grades A, B, C, D, E, F.

Grade A denotes superior scholarship; grade B, good scholarship;

grade C, fair scholarship; grade D, poor scholarship; grade E, a condition which may be removed by a second examination; grade F, a failure removable only by repetition of the subject in the class. Work of grades A, B, and C is counted toward a degree. Work of grade D may also be counted toward a degree, but not more than one-fifth of the work done under the College Faculty offered to meet the requirements for graduation may be of this grade and no work of this grade may be counted toward a major.

Work reported as of grade E must either be made good at a second examination within nine months, or be taken again in the classroom if credit is to be obtained, but work of this grade cannot be raised by examination to a grade higher than D. Work of grade D cannot be raised to a higher grade by examination.

Work reported incomplete at the end of any semester, and not made good before the close of the next semester, can thereafter be given credit only upon a second examination taken within the limit of time defined for such examinations.

Students who do not take the regular examination in any subject at the close of the semester are reported absent, and credit for that subject can be obtained only by passing a second examination within nine months, and only one such examination is allowed.

Undergraduates are not allowed credit for work done *in absentia.* Only those who have duly registered and have regularly pursued their studies in attendance at class are admitted to examinations.

The semester records of undergraduates are sent by the Registrar to the student's father or guardian.

If at the close of any semester a student fails to secure credit for as much as forty per cent of the work undertaken by him in that semester, such credit to be of a grade not lower than C, he must withdraw from college unless his registration is subsequently restored upon the recommendation of his adviser with the approval of the Committee on Delinquent Students.

CLASS ATTENDANCE AND ABSENCES

Students are expected to attend all the regular exercises of the courses for which they are registered, and instructors report all absences to the Registrar's office. Absence from class work for any cause is a loss to the student and is so treated by instructors in making up their semestral reports.

If for any cause a student is absent from more than one-eighth (see table below) of the class exercises in a course for which he is registered, he will be required to pass an additional examination on

a fixed day before receiving credit for the regular examination in that subject. If he is absent from more than one-sixth (see table below) of the class exercises in a course for which he is registered, his registration in that course is thereby cancelled and he is denied examination and credit. This rule is administered by the Committee on Registration with power to restore a cancelled registration, if the absences are deemed legitimate and the condition of the student's work gives sufficient warrant. Such restoration, however, does not remove discredit for loss of work due to absences nor does it release from the additional examination.

The maximum number of absences in any semester permissible under the above rule is as follows:

	One-eighth.	One-sixth.
In a one-hour course	2	3
In a two-hour course	4	5
In a three-hour course	6	8
In a four-hour course	8	10
In a five-hour course	10	13

Students are required to keep all laboratory appointments in the courses for which they are registered and to complete the full assignment of laboratory work. In such courses absences from lectures or recitations only are reported to the Registrar's Office and these are dealt with on the basis of the number of such exercises required. Absences from laboratory assignments in excess of one-sixth of the total number of such assignments will cancel the registration for the course.

The instructor has no authority to excuse a student from class attendance, and it is his duty to report all absences for whatever cause to the Registrar's office at the end of each week.

PARTICIPATION IN PUBLIC CONTESTS AND EXHIBITIONS

1. A student who fails to receive credit for as much as twelve hours for the work of any semester, shall not participate in any intercollegiate game or oratorical or other contest or exhibition, during the next semester of his college residence.

2. No student who is subject to exclusion from college under the forty per cent scholarship rule shall participate in any intercollegiate game or oratorical or other contest or exhibition, in the next succeeding semester of his college residence.

3. No student shall participate in any intercollegiate game or oratorical or other contest or exhibition who is not at the time suc-

cessfully carrying at least twelve hours of work, except in the case of seniors, where less than twelve hours will meet the requirements for graduation.

4. In operating these rules incomplete records due to conditions over which the student has no control may be adjusted at the discretion of the Committee on Delinquent Students, and the rules shall not be construed as debarring a freshman student in the first semester who is regularly registered and carrying twelve hours of work from participation in the regular freshman intercollegiate contests and activities.

SOCIAL ENTERTAINMENTS

For a party or social entertainment to be held by an organization or group of students, at which men and women are to be present, permission must be obtained beforehand from the Committee on the Social Life of Students. The conditions under which such party or entertainment is to be held are subject to the approval of the committee.

RESIDENCE

Men students find comfortable homes in private families within easy reach of the College. Some live in chapter houses, maintained by fraternities. It is expected that residences for men will be completed on the north Campus by September, 1912.

Women students, wherever they reside, are under the supervision of the Dean of Women and are expected to conform to the general regulations prescribed for the conduct of those living in the Halls. They are required to room in one of the Halls provided for them, unless special exemption is granted.

Willard Hall, the largest of the three women's dormitories, is under the immediate oversight of the Dean of Women, who lives in the building. For information respecting Willard Hall inquiries should be addressed to Willard Hall, Evanston, Illinois.

Pearsons Hall and Chapin Hall are in charge of an association of women residents in Evanston, incorporated as the Woman's Educational Aid Association. This Association considers the claims of applicants for admission and has a friendly supervision over the residents. The lighter housework of Pearsons and Chapin Halls is done by the young women residing in them, under the direction of a competent matron. In this way the expenses of living are materially reduced. For information respecting Pearsons Hall or Chapin Hall, inquiries should be addressed to the Corresponding Secretary of the Woman's Educational Aid Association, Evanston, Illinois.

The Library

The Library contains 83,675 bound volumes and approximately 55,000 pamphlets. It is open to officers of the University, and to students upon the payment of their regular semester bills, under the following regulations:

1. During the college year the Library is open, except on Sunday, from 8 a. m. to 10 p. m. In the summer vacation, except on Saturday afternoon and on Sunday, it is open from 8 a. m. until 12 noon and 1:30 p. m. to 5 p. m. The Library is closed on New Year's Day, the Fourth of July, Thanksgiving Day and Christmas Day.

2. Officers of the University have direct access to the shelves and are entitled to the first use of books.

3. Students may draw from the Library three volumes at a time, and these may be kept for two weeks unless specially restricted. Graduate students may have six volumes at a time.

4. The book stacks are not open to the students in general or to the public; but cards of admission may be given by the Librarian on recommendation of an officer of instruction.

5. Reserved books in the reading room and the seminary rooms are withdrawn from circulation at the request of officers of instruction for the use of their classes. The books reserved in the reading room and other books of reference, are placed on open shelves freely and equally accessible to all readers; or, when much in demand, they are kept at the desk, and delivered on application there. These books are on no account to be taken from the reading room, and must be used with due regard to the rights of others.

6. Persons not members of the University are allowed the use of the reading room at the discretion of the Librarian. Persons introduced by an officer of the University may be permitted to take books for a short period on the officer's account, or may be granted the privileges of the Library upon written application endorsed by an officer of the University.

The Gymnasium

The new gymnasium, recently erected, at a cost of more than $300,000, through the generosity of Mr. James A. Patten of Evanston, is one of the largest and best equipped in the country.

Regular classes are under the supervision of competent instructors and are open to men and women. The student upon entering gymnasium classes undergoes a physical examination, and his health,

strength, muscular development, and physical defects are carefully noted. From these data, exercises, based on scientific principles, are prescribed to meet his individual needs and to give increased health, strength, and symmetry of body. See courses in Physical Training.

Athletics

Athletic exercises and games participated in by students are under the supervision of the Director of Athletics and a Committee of the Faculty. The care and equipment of the athletic field, tennis courts, gymnasium, and the cost of necessary supplies and apparatus for athletic teams are provided for by the University.

Intercollegiate contests are governed by the regulations of the Western Intercollegiate Conference, of which the University is a member.

For a description of Northwestern Field see page 68.

Religious Worship

The charter of the University provides that "no particular religious faith shall be required of those who become students of this institution."

Students of the College of Liberal Arts are expected to attend public worship on Sunday in the church of their choice.

Chapel service is held at ten o'clock on each week day, except Saturday, throughout the college year. Attendance upon at least three-fifths of these services is required.

When a student's record of chapel credits is deficient as many credits as he is expected to secure in one-half of a semester, his registration in all studies is canceled, and it may be restored only on the recommendation of the faculty committee on chapel attendance.

Government

Students are temporary residents of the City of Evanston, and as such are amenable to the laws of the state and to the ordinances of the city. They are also subject to the rules and regulations made by the Faculty and are held to have a knowledge of all Faculty requirements published in the catalogue, or otherwise brought to their attention.

Students may be separated from the institution whenever in the opinion of the Faculty they are pursuing a course of conduct seriously

detrimental to themselves or to the University. The University will tolerate neither idleness nor dissolute habits.

Student Organizations

Fraternity Membership—In order that the intimate friendships properly existing among members of fraternities may be formed more deliberately, and that the young student may have time to become adjusted to his new surroundings before establishing life-long social relations, the Faculty with the co-operation of the fraternities has adopted the following rule, applicable alike to men and women students.

No student in the College of Liberal Arts may become a member of a fraternity until he shall have procured from the Dean a statement certifying that he has met the following requirements: 1. That he has been regularly enrolled as a College student for at least one semester; 2. That during such enrollment he has secured on record for work done under the faculty of this college at least ten semester hours of credit, of which not more than five hours are of preparatory grade.

Students transferring from other colleges are not held to the requirement of a semester's residence provided they present advanced credit for as much as ten hours in addition to meeting the full entrance requirements; but excess credit from a secondary school does not release a student from this requirement, and in all cases the Dean's certificate must be procured.

Musical Clubs—Student musical organizations are under the supervision of a standing committee of the Faculty. The chairman of the committee must be informed of the intended organization of any such association, and must be furnished with a statement of its plans, purposes, and membership. Formal organization is not permitted without the knowledge and sanction of the committee. Business managers of such organizations must not make arrangements for public appearances of the clubs without the consent of the committee. Concert dates will not be permitted to interfere with examinations, or to interrupt the routine of study. Students with delinquent standing are not allowed to retain connection with musical organizations.

Northern Oratorical League—The oratorical associations of Northwestern University, the University of Michigan, the University of Wisconsin, the University of Iowa, the University of Chicago, the University of Minnesota, and Oberlin College compose the Northern

Oratorical League. The purpose of this organization is to promote an interest in public speaking and to elevate the standard of oratory, by holding annual contests. The contests of the League are open only to undergraduates.

Central Debating League—The students of the University of Michigan, the University of Chicago, and Northwestern University are organized into a debating league in which representatives of each university meet annually, in January, representatives of each of the others in public contest. In these contests a single question is debated each year.

The Hinman Literary Society—This society was organized in 1855, during the first year of the work of the college, and has had a continuous existence. It was named in honor of the first President of the University, the Reverend Clark T. Hinman. It meets on Tuesday evenings throughout the year.

The Adelphic Literary Society—This society was first organized prior to 1867, and maintained a prosperous existence for over twenty years; it then ceased to be active, but was reorganized in 1897. It meets on Thursday evenings. Two prizes of twenty and fifteen dollars, the gift of Dr. M. C. Bragdon of the class of 1870, are competed for annually by its members.

The Rogers Debating Club—This society was organized in 1897, and was named in honor of Henry Wade Rogers, then President of the University. It meets on Thursday evenings. Three prizes, the gift of Mr. William Deering, are offered annually for competition among its members.

The Cleosophic Literary Society—This society for men was organized in 1905. Besides the weekly program of the society, a prize competition in debate is held annually.

Alethenai and Eulexia Literary Societies, for women, were organized in 1903.

Anonian, Kalethia, and Laurean Literary Societies, for women, were organized in 1905.

The Aleph Teth Nun Society is an organization of men for the study of political and social problems. It meets monthly and is frequently addressed by persons prominent in public life.

Christian Associations—A Young Men's Christian Association and a Young Women's Christian Association are in active operation in the College, and exert a helpful influence upon the religious life

of students. The Men's Association has headquarters in Old College, and the Women's Association, at Willard Hall. Each association employs a general secretary and maintains a bureau of self-help for students seeking employment. Under the direction of these organizations, religious meetings are held each week, and study of the Bible is promoted.

For a list of the officers of the Christian Associations of the College of Liberal Arts, see University Societies, page 407.

As auxiliaries to the Christian Associations there have been organized two societies—the Student Volunteer Band, composed of young men and women who have volunteered for foreign missionary service, and a society known as the Oxford Club, whose membership is composed of young men preparing for Christian service as ministers or as Association secretaries.

The Woman's League—The Woman's League is an organization having as its purpose the consideration of matters of interest to college women. It is composed of women students, alumnæ, and other women actively interested in the University.

New Organizations—Groups of students who contemplate forming an organization are required to file in advance with the Chairman of the Committee on Student Affairs an application stating the name, purpose, plans, and initial membership of the proposed organization.

Fees and Expenses

Matriculation Fee—Every student on first entering the College of Liberal Arts is required to pay a matriculation fee of five dollars. This fee is paid but once and is not returnable.

Fees for Undergraduates—At the beginning of each semester undergraduate students are required to pay fees for instruction and incidentals as shown in the following table. Upon payment of his semester bill the student is entitled to all the general privileges of the College. He may take any course for which he is qualified under the regulations affecting registration, but in certain laboratory courses he is required to pay additional fees as shown below.

SCHEDULE OF UNDERGRADUATE FEES FOR EACH SEMESTER

Regular full tuition and incidentals	$50.00
Sons and daughters of ministers	30.00

This reduced rate of tuition is granted only to sons and daughters of clergymen who are actively pursuing the work of the ministry.

Students pursuing a single study, i. e., work not exceeding five hours a week	30.00
Sons and daughters of ministers pursuing a single study	22.00
Holders of old-time perpetual or transferable scholarships, for incidentals	27.50

Fees for Students Registered in two Schools—A student whose primary registration is in another School of the University, or in Garrett Biblical Institute, pays the fees of that School and may register in the College of Liberal Arts for such courses as may be approved by both faculties concerned without additional fees for tuition. The matriculation fee is paid but once, on the student's first admission to the University, but laboratory and other special fees are chargeable for any courses taken. Students in the Evanston Academy taking courses in College not required for admission, pay regular college fees.

Laboratory Fees—Students pursuing laboratory courses are charged additional fees to cover the cost of materials and the use of special apparatus. They are not refunded if the student continues in a course as long as ten days, except that in the Chemical Laboratory the fee is in the nature of a deposit, and an account is kept of the material used, the unexpended balance at the end of the year being returned to the student. In all departments students are chargeable for unnecessary breakages. The laboratory fees for each semester are as follows:

ANATOMY

Dissection and Osteology	$30.00

BOTANY

Any course	2.00

CHEMISTRY

Course A	7.50
Other courses except Courses B3, B4, C4, and D7, each	9.00

GEOLOGY

Course A1, A2, A3, C3, or C4	2.00
Course B4	5.00

PHYSICS

Course A or B	2.00
Course C	3.00

ZOÖLOGY

Course A	3.00
Course B1, B2, B3, C, or D	2.00

Fee for Late Registration—A fee of two dollars is charged students registering after the regular dates.

Fee for Special Examinations—A fee of two dollars is charged for each examination taken at a time other than that provided in the regular schedule.

Graduation Fee—A fee of ten dollars is charged persons taking any degree in the College of Liberal Arts. This fee is payable on the first day of May of the year of graduation.

Refunds—No fees for instruction or incidentals will be refunded except in cases of sickness. If on account of his serious illness a student withdraws before the middle of a semester, one-half of his tuition fee will be refunded, provided he secures from the Dean a statement of honorable standing, and from a physician a certificate that his health will not permit him to remain in attendance. Application for a refund must be made before the close of the semester for which the fee was paid.

Bills for fees are made out at the Registrar's office in University Hall. Payment is made at the Business Manager's Office, 518 Davis Street, Evanston. Checks should be made payable to "Northwestern University," and all payments should be made in currency or in Chicago exchange.

BOARDING AND LODGING

Students living in Willard Hall pay for board and room from $225 to $261 a year, according to the desirability of the room. Bills are payable quarterly in advance. Applicants for rooms sign a contract, guaranteed by some responsible person not a college officer, to occupy the assigned room for the full college year or to secure a suitable substitute. A deposit of ten dollars is required at the time a room is assigned. This amount will be refunded at the end of the year or when the depositor has fulfilled her contract, or if the room is surrendered before the first of August five dollars will be refunded.

Bills for room and board are payable strictly in advance, and no deduction is made for absence, except in case of protracted illness.

Pearsons Hall and Chapin Hall are residences for women students of limited means, and applications for admission must be made to the Corresponding Secretary of the Woman's Educational Aid Asso-

ciation, Evanston. In these halls students pay for board and room $145.00 a year, in quarterly installments, at the beginning and at the middle of the semester, and five dollars additional when the room is reserved. They are required to assist in the lighter housework.

Young men obtain board and lodging in private families at reasonable rates. Clubs are formed in which the cost of board is reduced to a minimum.

ESTIMATED ANNUAL EXPENDITURES

	LOW	AVERAGE	LIBERAL
Tuition fees	$100	$100	$100
Laboratory and other fees	5	10	20
Board, 36 weeks	162	180	252
Room, 9 months	45	72	108
Laundry	24	36	45
Text-books and stationery	10	18	35
	$346	$416	$560

LOAN FUNDS

The University receives annually a considerable sum of money to be loaned without interest to worthy students. Loans are made upon the recommendation of the Committee on Loan Funds. Satisfactory scholarship and promise of service are essential to securing such assistance. Loans cannot in general be made until the student has been in residence in College for at least a half year.

SELF-SUPPORT OF STUDENTS

The University does not encourage students to enter college if entirely without resources. Especially is it undersirable that young women should enter college without funds if wholly dependent on their own efforts. It happens, however, every year that not a few students are able to help themselves materially by their labor, while pursuing studies. The Young Men's and the Young Women's Christian Associations conduct bureaus of self-help which are of assistance every year in securing work for a large number desiring it. Inquiries sent to the Secretary of either Association receive careful attention.

For further information in regard to the College of Liberal Arts, address the Dean of the College, Evanston, Illinois.

For blank forms of admission and for information regarding entrance requirements and matters of record, address the Registrar of the College of Liberal Arts, Evanston, Illinois.

Graduate School

The Graduate School is organized to promote and harmonize graduate study within the University, and is under the direction of a Board of Graduate Studies representing the several schools in which graduate courses are offered. This Board determines the conditions of admission to the Graduate School and announces the courses of study under the various faculties which are recognized as graduate courses counting toward advanced degrees. It prescribes the regulations under which advanced degrees are conferred and recommends candidates for such degrees.

The Board of Graduate Studies for 1911-1912 is composed of the following members:

Professor Thomas F. Holgate, Chairman

Professor John H. Long	Professor Mix
Professor Young	Professor J. A. Scott
Professor Hatfield	Professor Brown
Professor Crew	Professor W. D. Scott
Professor Clark	Professor Hotchkiss
Professor Wigmore	Professor Curtiss
Professor Locy	Professor J. G. Wilson
Professor James	Professor Hayford
Professor Baillot	Professor O. F. Long
Professor Grant	Mr. Crossley

ADMISSION AS GRADUATE STUDENTS

Any person who has received a bachelor's degree from a college or scientific school of recognized standing may be admitted to this University as a graduate student on presentation of proper certificates of character and qualification. Admission to the rank of graduate student does not, however, imply candidacy for a degree in any stated time, and such candidacy can only be determined after a consideration of individual merits. Applications for admission should be addressed to the Chairman of the Board of Graduate Studies, University Hall, Evanston.

REGISTRATION

With the consent of the departments concerned and the approval of the Board of Graduate Studies, graduates of this, or of other colleges or universities, not candidates for an advanced degree, may

register as resident students in such advanced studies as they are found qualified to pursue, by appearing at the office of the Board and securing approval of their plans.

Candidates for an advanced degree must register with the Chairman of the Board of Graduate Studies not later than the tenth day of October next preceding the date of the final examination. They must furnish the necessary data for the proper record of their applications, and a statement of the courses to be pursued. The application and the statement of courses must be approved by the Board of Graduate Studies and by the heads of the departments in which the work is to be taken.

A graduate of one of the professional schools of this university desiring to become a candidate for a Master's degree, under the provisions of paragraph 4 below, must register in the Graduate School as early as the tenth day of October next following the completion of the professional course.

Degrees

THE MASTER'S DEGREE

The degree of Master of Arts or Master of Science may be conferred on a Bachelor of Northwestern University, or of another institution of accepted grade, under the following regulations:

1. The candidate must have pursued studies in residence in the College of Liberal Arts or in the Graduate School of Northwestern University for at least one year, except as stated in paragraph 4 below. Residence requires regular attendance upon all prescribed lectures or other exercises in the courses which the candidate pursues, and such prescribed lectures and exercises must occur at least once a week in each course of instruction.

2. A candidate for a Master's degree must present credit of a high grade in approved courses of study amounting to thirty semester hours. At least one-half of the work offered must be chosen from one department of study and must be more advanced than that required for the undergraduate major in that department. The remainder of the work may be chosen from the same or from another department, but purely elementary courses in any department may not be presented.

3. The candidate must present a thesis on an approved topic pertaining to his primary subject. The subject of his thesis must be filed with the Registrar not later than the first Wednesday in December; and the thesis itself must be filed with the Registrar not later than the third Saturday of May. It must be printed or typewritten

in prescribed form and a copy shall be furnished to the University Library.

4. A Bachelor of Northwestern University, or of another institution of accepted grade, may become a candidate for a Master's degree while pursuing studies in the Medical School or Law School of this University, or in Garrett Biblical Institute, or on the completion of the professional course in one of these schools, provided such candidacy is entered in accordance with the regulations governing registration in the Graduate School.

5. A candidate for a Master's degree enrolled in the Medical School or the Law School of this University or in Garrett Biblical Institute, or a graduate from one of these schools complying with the regulations governing registration, may present credit of a high grade amounting to twelve semester hours of advanced work in an approved field, and a thesis in addition to the maximum prescribed professional course, provided the candidate had received a Bachelor's degree from an institution of accepted grade before entering the professional school.

The minimum time requirement for taking a Master's degree in combination with a Bachelor's degree and a professional degree is seven years of study in residence. The work presented under this regulation may be taken either under the Faculty of the College of Liberal Arts or under the Faculty of a professional school, but in either case it must be approved by the Board of Graduate Studies.

Candidates who complete the requirements for a Bachelor's degree by studies in a professional school must present thirty semester hours of credit for the Master's degree.

6. A Bachelor of Northwestern University may become a non-resident candidate for the corresponding Master's degree after having completed one half year of graduate work, fifteen semester hours, in residence, but in such case the remaining half-year of work, see paragraph 2, above, if done out of residence, must be extended over at least two semesters. A non-resident candidate for a Master's degree is required, at stated times, to make written reports on the progress of his work. Graduates of other institutions are not admitted as non-resident candidates for a degree.

7. A student in the College of Liberal Arts who during his undergraduate course devotes time to the continuation of his major subject, or to other advanced topics approved by the Board of Graduate Studies, in excess of the total requirement of one hundred and twenty semester hours for a Bachelor's degree, may for such work receive credit toward a Master's degree; but in no case will the Master's degree be conferred in less than one year after the conferring of the Bachelor's degree.

8. The final examination of the candidate for a Master's degree takes place at the University at an appointed date, about May 20. The examination is conducted by a committee composed of the head of the department in which the student has done his primary work and not less than two other members of the Faculty chosen from the same or from related departments. In the case of a candidate doing work in a professional school the committee shall include at least two members of the Faculty of the College of Liberal Arts.

THE DOCTOR'S DEGREE

The degree of Doctor of Philosophy is conferred under the following regulations:

1. A candidate for the degree of Doctor of Philosophy must have received the Bachelor's degree from Northwestern University, or from some other institution of accepted standing.

2. The degree may be conferred on successful candidates after three years of graduate study, of which at least two must be in residence. The last year, or the first two years, must be spent in residence at Northwestern University. The period of three years may, however, be shortened in the case of students who, as undergraduates, have pursued special studies beyond the requirement for major work in the direction of their proposed graduate work. Study for a specified time will in no case be regarded as sufficient ground for conferring the degree, but in all cases high attainments in scholarship and evidence of capacity for original investigation are demanded.

3. The candidate must give two-thirds of his time to advanced work in one department of study which shall constitute his primary subject, and the remaining time to either one or two secondary subjects. The requirement "advanced work" implies preliminary study in the given subject equivalent at least to an undergraduate major in that department.

4. The candidate must have a reading knowledge of French and German as a preliminary qualification, but in exceptional cases an equivalent in Latin, Greek, or Hebrew may be accepted instead of French.

5. The candidate must present a thesis upon an approved topic pertaining to his primary subject which gives evidence of original investigation. A revised typewritten copy of the thesis in prescribed form must be filed with the Registrar as early as the Saturday next preceding the last Monday in April. If the thesis is approved, the candidate must, within such time as shall be designated, present twenty-five printed copies to the University Library.

6. The final examination, which is both written and oral, is held about May 20, and covers the entire primary subject, including the topic of the thesis. The secondary subject, or subjects, may be discontinued when the candidate has fulfilled the requirements of attendance at lectures and has passed the necessary written examinations.

THE DOCTOR'S DEGREE FOR CANDIDATES IN THEOLOGY

Students in Garrett Biblical Institute may become candidates for the degree of Doctor of Philosophy under the following special regulations: The general regulations affecting examinations, theses, and a knowledge of foreign languages apply to these candidates.

1. The candidate must have completed a course for a Bachelor's degree, the sufficiency of which has been accepted by a joint committee of the Faculty of the Institute and of the Board of Graduate Studies.

2. He must have completed two full years of theological study, either in Garrett Biblical Institute or in another theological school of recognized standing.

3. He must thereafter be accepted as a candidate for the degree of Doctor of Philosophy by a vote of the Faculty of the Institute, and must be registered in the Graduate School as a candidate for such degree. He must then continue in residence at least two years, and must complete the work of two full years. Of this work two-thirds must be taken in one department of the Institute; the remaining one-third may be taken in not more than two departments of the Institute or of the College of Liberal Arts. During these two years of residence the candidate is subject to the direction of the head of the department in which his primary work is taken. The whole course of study is subject to the approval of the Board of Graduate Studies.

4. Of the four years required for a degree of Doctor of Philosophy, under these regulations, three at least must be spent in residence at a theological school of high standing, and the last two must be spent in Garrett Biblical Institute.

Fellowships and Scholarships

University Fellowships—For the promotion of graduate study and research, the University awards annually ten fellowships of three hundred dollars each. These are assigned from year to year to various departments according to the merits of the applicants. Fellowships are open to men and women alike, whether graduates of this University or of other institutions, and appointments are made for one

year. Fellows pay no tuition fees, but may be required to give limited assistance in the work of the department, not however, to such an extent as to interfere with the primary purpose of the fellowship. Fellows entering from other institutions pay the matriculation fee.

Applications for appointment as Fellow must be made not later than the tenth day of April. Awards are made not later than the first of May. Blank forms for applications may be had from the office of the Registrar.

University Settlement Fellowship—This fellowship yields an income of three hundred dollars, contributed by the students of the College of Liberal Arts, and carries exemption from tuition fees. The holder is required to reside in the Northwestern University Settlement.

University Scholarships—Three graduate scholarships of one hundred and twenty dollars each are awarded annually. The holders pay the regular graduate tuition fees.

Catherine M. White Scholarships—From a bequest of nine thousand dollars under the will of Catherine M. White, of Evanston, there have been established three scholarships paying one hundred and twenty dollars each a year. The holders pay the regular graduate tuition fees.

Marcy Scholarship in Biology—The University has at its disposal a table at the Marine Biological Laboratory, Wood's Holl, Massachusetts, for the use of advanced students from the biological department of the College of Liberal Arts. The occupants of this table are entitled to all the privileges of the laboratory, including instruction, lectures, and the use of appliances and apparatus.

The American School of Classical Studies at Rome—The University is a contributor to the American School of Classical Studies at Rome, and is represented on its Board of Managers by a member of the Faculty. The school affords facilities for archæological and classical investigation and study in Rome, and graduates of the University are entitled to its advantages without tuition fees.

Prizes—The Harris Prize and the Orrington Lunt Prize are open alike to graduates and undergraduates. See pages 177 and 178.

Fees and Expenses

Matriculation Fee—A student on first entering the University is required to pay a matriculation fee of five dollars. This fee is paid but once and is not returnable.

Tuition Fees—The tuition fees for graduate students, whether resident or non-resident, are determined by the number of hours of instruction taken. The fee for a lecture, or seminar, or laboratory course is five dollars a year for each year-hour of credit; the total amount of tuition fees in any one year shall not, however, exceed forty dollars.

Laboratory Fees—Graduate students pursuing laboratory courses pay additional laboratory fees in accordance with the table printed on page 189.

Graduation Fee—A fee of ten dollars is payable by candidates taking any degree on the recommendation of the Board of Graduate Studies. This fee is due on the first day of May of the year in which the degree is conferred.

Bills for fees are made out at the office of the Registrar in University Hall. Payment is made at the office of the Business Manager, 518 Davis Street, Evanston. Checks should be made payable to "Northwestern University," and all payments should be made in currency or in Chicago exchange.

For the special bulletin of the Graduate School or more detailed information, address the Secretary of the Graduate School, University Hall, Evanston, Ill.

The Medical School

The Medical School

NORTHWESTERN University Medical School was organized in 1859 as the Medical Department of Lind University of Chicago; and its first annual course of medical instruction began October 9, 1859. The active founders and permanent supporters of the school were Doctors Hosmer A. Johnson, Edmund Andrews, Ralph N. Isham, Nathan S. Davis, and William H. Byford, aided by Doctors David Rutter, John H. Hollister, F. Mahla, M. K. Taylor, and Titus Deville.

The Medical School occupied rooms in the Lind Block on the corner of Randolph and Market Streets until the fall of 1863 when Lind University released the Medical Faculty from all further obligations to remain a department of that institution. Being thrown on their own resources, the Medical Faculty erected a building on State Street near Twenty-second Street, and continued the Medical School under the name of the Chicago Medical College. In 1869 the Chicago Medical College became the medical department of Northwestern University. The College in 1870 moved its building on State Street to the corner of Twenty-sixth Street and Prairie Avenue. The building was now on the same ground as Mercy Hospital, which it adjoined. In 1890 Mercy Hospital needed the ground on which the college building stood for extensive additions and the College needed new buildings to accommodate its laboratories and growing dispensary. By the aid of Mr. William Deering land was purchased at the corner of Twenty-fifth and Dearborn Streets. Davis Hall and the present Laboratory Building were erected during 1892 on this land and were first used in the college year 1893-1894. In 1901 a splendid, fire-proof building was erected by the side of the Medical School for the use of Wesley Hospital. This building materially augmented the clinical opportunities that were available to the students in the Medical School. In 1905 the Medical School became an integral part of Northwestern University with which it had been affiliated since 1869.

Much of the success of the School is due to the benefactions of Mr. William Deering, Dr. Nathan S. Davis, and Dr. Ephriam Ingals, and to the wisdom and devotion of Dr. Nathan S. Davis, who served as Dean from 1901 to 1907.

The Medical School has been a pioneer in the advancement of medical education in the United States. It was the first American school to enforce a standard of preliminary education; to adopt longer annual courses of instruction; and to initiate, in 1859, the graded curriculum, in which the studies were assigned in logical order, and in which laboratory departments prepared the way for the practical clinical branches. The School is open to men only.

Abram Winegardner Harris, Sc.D., LL.D.
President

Arthur Robin Edwards, A.M., M.D.
Dean

Winfield Scott Hall, Ph.D., M.D.
Junior Dean

Charles Louis Mix, A.M., M.D.
Secretary of the Faculty

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*John Hamilcar Hollister, A.M., M.D.
Professor Emeritus of Clinical Medicine

Frank Seward Johnson, A.M., M.D.
Dean Emeritus; Professor Emeritus of Medicine and of Clinical Medicine

William Evans Casselberry, M.D.
Professor Emeritus of Laryngology and Rhinology

John Edwin Owens, M. D.
Professor Emeritus of Surgery and of Clinical Surgery

John Harper Long, M.S., Sc.D.
Professor of Chemistry, Director of the Chemical Laboratories

Emilius Clark Dudley, A.M., M.D.
Professor of Gynecology

Nathan Smith Davis, A.M., M.D.
Professor of the Principles and Practice of Medicine and of Clinical Medicine

Edward Wyllys Andrews, A.M., M.D.
Professor of Surgery and of Clinical Surgery

Frank Taylor Andrews, A.M., M.D.
Clinical Professor of Gynecology

Joseph Zeisler, M.D.
Professor of Skin and Venereal Diseases

William Edward Morgan, M.D.
Clinical Professor of Surgery

Archibald Church, M.D.
Professor of Nervous and Mental Diseases and Medical Jurisprudence

Winfield Scott Hall, Ph.D., M.D.
Nathan Smith Davis Professor of Physiology

Arthur Robin Edwards, A.M., M.D.
Professor of the Principles and Practice of Medicine and of Clinical Medicine

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*Deceased November 13, 1911.

Joseph Bolivar DeLee, A.M., M.D.
Professor of Obstetrics

John Benjamin Murphy, A.M., M.D., LL.D.
Professor of the Principles and Practice of Surgery and of Clinical Surgery

Samuel Craig Plummer, A.M., M.D.
Clinical Professor of Surgery

Albert Edward Halstead, M.D.
Clinical Professor of Surgery

Robert Bruce Preble, A.B., M.D.
Professor of Medicine

Frank Xavier Walls, M.D.
Clinical Professor of Pediatrics

Frederick Robert Zeit, M.D.
Professor of Pathology and Bacteriology

William Edward Schroeder, M.D.
Professor of Surgery and of Clinical Surgery

Thomas James Watkins, M.D.
Clinical Professor of Gynecology

Lester Emanuel Frankenthal, M.D.
Clinical Professor of Gynecology

Hugh Talbot Patrick, M.D.
Clinical Professor of Nervous and Mental Diseases

Charles Louis Mix, A.M., M.D.
Professor of Physical Diagnosis

Louis Ernst Schmidt, M.S., M.D.
Clinical Professor of Genito-Urinary Surgery

Frederick Menge, M.D.
Professor of Laryngology and Rhinology

William Augustus Evans, M.S., Ph.D., M.D., D.P.H.
Professor of Sanitary Science

Brown Pusey, M.D.
Professor of Ophthalmology

John Gordon Wilson, A.M., M.B., C.M.
Professor of Otology

Isaac Arthur Abt, M.D.
Professor of Pediatrics

Hugh McGuigan, Ph.D., M.D.
Professor of Pharmacology

Stephen Walter Ranson, Ph.D., M.D.
Professor of Anatomy

Charles Beach Atwell, Ph.M.
Professor of Botany
Adviser to Medical Students in Evanston

William Albert Locy, Ph.D., Sc.D.
Professor of Embryology

Frederick Atwood Besley, M.D.
Associate Professor of Surgery

Charles William Prentiss, A.M., Ph.D.
Associate Professor of Anatomy

Charles Bert Reed, M.D.
Assistant Professor of Obstetrics

Lucius Crocker Pardee, M.D.
Assistant Professor of Skin and Venereal Diseases

Julius Grinker, M.D.
Assistant Professor of Clinical Neurology

D'Orsay Hecht, M.D.
Assistant Professor of Nervous and Mental Diseases and Medical Jurisprudence

George Paull Marquis, M.D.
Assistant Professor of Laryngology and Rhinology

George Boyd Dyche, A.B., M.D.
Assistant Professor of Medicine

Paul Chester, B.S., M.D.
Assistant Professor of Medicine

Charles Addison Elliott, B.S., M.D.
Assistant Professor of Medicine

Achilles Davis, Ph.B., M.D.
Assistant Professor of Medicine

Walter Herman Buhlig, B.S., M.D.
Assistant Professor of Clinical Pathology; Librarian

Winfield Scott Harpole, M.D.
Assistant Professor of Clinical Medicine

Joseph Brennemann, Ph.B., M.D.
Assistant Clinical Professor of Pediatrics

Robert Tracy Gillmore, M.D.
Assistant Clinical Professor of Gynecology

Harry Mortimer Richter, M.D.
Assistant Professor of Surgery

Allen Buckner Kanavel, Ph.B., M.D.
Assistant Professor of Surgery

Walter Steele Barnes, M.D.
Assistant Professor of Gynecology

William Robert Cubbins, B.S., M.D.
Assistant Professor of Surgery

Murray Arnold Hines, Ph.D.
Assistant Professor of Chemistry

Eugene Howard Harper, Ph.D.
Assistant Professor of Histology

William Cuthbertson, M.D.
Associate in Gynecology

David Monash, M.D.
Associate in Obstetrics

Thomas Henry Lewis, M.D.
Associate in Gynecology

Henry William Cheney, M.D.
Associate in Pediatrics

Frank Ellis Pierce, M.D.
Associate in Surgery

Herbert Marion Stowe, M.D.
Associate in Obstetrics

Alexander Aaron Goldsmith, M.D.
Associate in Medicine

Luther James Osgood, M.D.
Associate in Medicine

Isaac Donaldson Rawlings, M.S., M.D.
Associate in Medicine

Robert Agedius Krost, M.D.
Associate in Pediatrics

John Gaily Campbell, A.M., M.D.
Instructor in Clinical Pediatrics

James Forrest Churchill, M.D.
Instructor in Medicine

George James Dennis, M.D.
Instructor in Laryngology and Rhinology

Charles Marvin Fox, M.D.
Instructor in Surgery

Thomas Haigh Glenn, Ph.D.
Instructor in Bacteriology

Julius Hays Hess, M.D.
Instructor in Pediatrics

Harry Jackson, B.S., M.D.
Instructor in Histopathology

Mark Jampolis, A.M., M.D.
Instructor in Pediatrics

William A. Johnson, Ph.C.
Instructor in Chemistry

George Thomas Jordan, B.S., M.D.
Instructor in Ophthalmology

Charles J. Kurtz, A.M., M.D
Instructor in Haematology

Victor Darwin Lespinasse, M.D.
Instructor in Genito-Urinary Surgery

Walter Peter McGibbon, M.D.
Instructor in Otology

Corey Hugh McKenna, M.D.
Instructor in Surgery

Milton Mandel, M.D.
Instructor in Medicine

Robert Campbell Menzies, M.D.
Instructor in Surgery

Ernest Charles Riebel, M.D.
Instructor in Surgery

Frank Edward Simpson, M.D.
Instructor in Dermatology and Syphilology

Burt Smith Stevens, Ph.G., M.D.
Instructor in Surgery

Henry Bascom Thomas, B.S., M.D.
Instructor in Clinical Orthopedic Surgery

Richard Joseph Tivnen, M.D.
Instructor in Opthalmology

Frank Wright, Ph.C., M.D.
Instructor in Chemistry

Charles Benjamin Younger, M.D.
Instructor in Laryngology and Rhinology

Winford Lee Lewis, Ph.D.
Instructor in Chemistry

John James Andrews, M.D.
Clinical Assistant in Gynecology

Arthur Frederic Beifeld, Ph.B., M.D.
Clinical Assistant in Medicine

Anthony Biankini, M.D.
Clinical Assistant in Surgery

Robert Alfred Black, M.D.
Clinical Assistant in Surgery

William Sherman Bracken, M.D.
Clinical Assistant in Laryngology and Rhinology

William Elmer Brenneman, M.D.
Clinical Assistant in Neurology

George Bassett Butt, M.D.
Clinical Assistant in Medicine

James Gray Carr, A.B., M.D.
Clinical Assistant in Medicine

George Hayward Coburn, M.D.
Clinical Assistant in Gynecology

James Joseph Cole, M.D.
Assistant in Preliminary Surgery

Gordon Trevor Courtenay, M.D.
Clinical Assistant in Surgery

Henry Thomson Cummings, M.D.
Clinical Assistant in Surgery

Norman Dixon Curry, B.S., M.D.
Clinical Assistant in Genito-Urinary Surgery

Arthur Hale Curtis, M.D.
Clinical Assistant in Gynecology

Bertram Charles Cushway, M.D.
Assistant in Preliminary Surgery

Leo Garnet Dwan, B.S., M.D.
Clinical Assistant in Medicine

Guy Grigsey Dowdall, M.D.
Clinical Assistant in Surgery

Charles August Ericson, Ph.G., M.D.
Clinical Assistant in Medicine

Arthur Barnett Eustace, M.D.
Clinical Assistant in Surgery

George Carl Fisher, M.D.
Clinical Assistant in Genito-Urinary Surgery

Frank Doig Francis, A.B., M.D.
Clinical Assistant in Surgery

John Ferdinand Golden, M.D.
Clinical Assistant in Surgery

Mark Twain Goldstine, L.M., M.D.
Clinical Assistant in Gynecology

Guy Aubrie Gowen, M.D.
Clinical Assistant in Surgery

George Walter Hochrein, M.D.
Clinical Assistant in Surgery

Albert Triplett Horn, M.D.
Assistant in Preliminary Surgery

Carl DaCosta Hoy, M.D.
Clinical Assistant in Surgery

Lawrence Lee Iseman, Ph.B., M.D.
Clinical Assistant in Surgery

Alfred Frederick Jacobson, M.D.
Clinical Assistant in Dermatology

John Edward Kelley, M.D.
Clinical Assistant in Surgery

Jeremiah Emmett Leahy, M.D.
Clinical Assistant in Surgery

John Matthew Lilly, A.B., M.D.
Clinical Assistant in Medicine

Otis Hardy Maclay, B.S., M.D.
Clinical Assistant in Laryngology and Rhinology

Alfred Newton Moore, M.D.
Clinical Assistant in Surgery

Albert Earl Mowry, M.D.
Clinical Assistant in Genito-Urinary Surgery

Bernard Nelson, M.D.
Clinical Assistant in Surgery

Rupert Merrill Parker, B.S., M.D.
Clinical Assistant in Surgery

Otto Steve Pavlik, Ph.G., M.D.
Clinical Assistant in Gynecology

Albert Pech, M.D.
Clinical Assistant in Medicine

Kellogg Speed, M.D.
Clinical Assistant in Surgery

Edward Samuel Stewart, M.D.
Clinical Assistant in Laryngology and Rhinology

Brown Fred Swift, B.S., M.D.
Clinical Assistant in Genito-Urinary Surgery

John Thomas Welch, M.D.
Clinical Assistant in Surgery

Alfred Joy Willetts, M. D.
Clinical Assistant in Medicine

John Adam Wolfer, M.D.
Clinical Assistant in Surgery

Maurice Wolff, M.D.
Clinical Assistant in Genito-Urinary Surgery

Albert Bernard Yudelson, M.D.
Clinical Assistant in Neurology

Frederick Otto Bowe, M.D.
Demonstrator in Operative Obstetrics

David Sweeney Hillis, M.D.
Demonstrator in Operative Obstetrics

David Alfred Horovitz, B.S., M.D.
Demonstrator in Operative Obstetrics

Henry Carroll Tracy, Ph.D.
Assistant in Anatomy

Martin Rist Chase, B.S., A.M.
Assistant in Anatomy

Willis Stanley Gibson, A.B.
Assistant in Anatomy

Mary Hull
Assistant in Chemistry

Sumner Leibnitz Koch, A.B.
Assistant in Anatomy

Charles Leonard von Hess, M.S.
Assistant in Pharmacology

Henning Theodore Mostrom, B.S.
Assistant in Pharmacology

James Casey, Ph.G., M.D.
Superintendent of the Dispensaries

Fred Homer Clutton, A.M.
Registrar

STUDENT ASSISTANTS

Pharmacology—John Jacob Kurtz.

Anatomy—Karl Leroy Vehe, Charles George Hutter, Guy Van Alstine, B.S.

Physiology—Walter Herman Nadler, B.S.; Virgil Ray Stephens, M.S.; Kimball Bannister, A.B.; Virgil Dudman, B.S.

Committees of the Faculty

Medical Council—President Harris, Dean Edwards, Secretary Mix; Professors Long, Hall, Dudley, Preble, Schroeder, DeLee, Wilson, Dyche, and Atwell.

Advanced Standing—Professors Mix, Schroeder, and Zeit.

Library—Professors Andrews, Schroeder, and Buhlig, (librarian).

Alumni Week—Professors Gillmore, Long, Hall, Reed, and Menge.

Re-examination—Professors Long, Mix, and Preble.

Honorary and Advanced Degrees—Professors Mix, Long, and Buhlig.

The Curriculum—Dean Edwards, Professors Long, and Wilson.

Candidates for the Degree of Bachelor of Science in Medicine—Dean Edwards, Professors Long, Zeit, Wilson, and Ranson.

Requirements for Admission

I. The candidate for admission to the Medical School must be of good moral character as evidenced by certificates signed by two physicians of good standing in the state in which the candidate last resided.

II. He must have credit for two years of work in an approved college.

III. He must have completed in those two years of college work at least nine-twentieths of the total number of hours or units required for graduation from his college; and in the schedule of his work must have been included not less than a year each in

a. Chemistry comprising general inorganic chemistry and qualitative analysis; b. General Physics; c. Zoölogy; and d.

A foreign language. These requirements will be satisfied by courses such as the following, described in this Catalogue in the section on the College of Liberal Arts, pages 111 to 159: Chemistry, Course A and at least the first semester of Course B; Physics, Course A; Zoölogy, Course A; German, Course AA or A; French, Course AA or A. It is recommended that the candidate include at least two years of Latin in his preparation.

IV. Candidates for admission in October, 1912, to the Third and Fourth year classes must present credentials covering a four year high school course in an accredited high school, together with credentials from a recognized College of Liberal Arts covering one year of 30 semester hours credit, and an official statement from the medical school last attended covering in detail the courses taken and the credits received.

Applicants for admission to advanced standing from other medical schools must present with their official credentials, letters of honorable dismissal.

V. Admission to the Fourth Year class is by special action of the faculty and usually is granted only to graduates in medicine.

SIX-YEAR COMBINED COURSE IN SCIENCE AND MEDICINE

It is now possible to secure both the degrees of Bachelor of Science and Doctor of Medicine in six years. Students who desire to effect this saving of time should conform to the following regulations.

(a) Students who have completed at least the Sophomore Year in the College of Liberal Arts at Evanston may then enter the Medical School and submit certain studies of the medical course for the completion of the requirements prescribed by the College of Liberal Arts for the Bachelor of Science degree, and on the completion of the course of Medicine they will receive not only the degree of Doctor of Medicine, but also the degree of Bachelor of Science, that degree being given on the recommendation of the faculty of the College of Liberal Arts.

(b) Students who have completed two years of college work, including the Freshman and Sophomore requirements of the College of Liberal Arts for the degree of Bachelor of Science may pursue the first year of the medical course at Evanston and the last three years in the city of Chicago. The year of work done in the medical course in Evanston will be accepted by the College of Liberal Arts as satisfying the college requirement of one year of residence. The other requirements of the College of Liberal Arts for the degree

of Bachelor of Science may be completed by the offer of studies taken in the medical course. On the completion of the medical course, the candidate will receive not only the degree of Doctor of Medicine, but also on the recommendation of the faculty of the College of Liberal Arts, the degree of Bachelor of Science. The first year of the School of Medicine is conducted both in the city at 24th and Dearborn Streets, and also at Evanston. The instruction is given by instructors who are also members of the faculty of the College of Liberal Arts. In order to satisfy the residence requirement, students may also register as students in the College of Liberal Arts.

COURSES PRESCRIBED IN THE COLLEGE OF LIBERAL ARTS FOR STUDENTS IN THE SIX-YEAR COMBINED COURSE

1. Mathematics A1. *Credit, three year-hours.* Mathematics A3, five hours, may be substituted for this course.
2. English Language A. *Credit, three year-hours.*
3. French A and German A. *Credit, each three year-hours.*

If French or German is presented for admission, the requirement of college courses is reduced accordingly, except that in all cases a course as advanced as Course A in at least one of these languages must be taken in College. Candidates who present two units of Latin or two units of Greek for admission may omit in College the A-course in either French or German; and candidates who present three units of Latin or three units of Greek for admission may omit in College both the A-course and the AA-course in either French or German, but not in both.

4. English Literature A. *Credit, two year-hours.*
5. Physics A. *Credit, four year-hours.*
6. Chemistry A. *Credit, four year-hours.*
7. Chemistry B, first semester. *Credit, four semester-hours.*
8. Zoölogy A. *Credit, four year-hours.*
9. One of the following. *Credit, three year-hours.* History A, E, H, or BC, Economics A, Philosophy A1 and A2, Psychology A1 and A2.

COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

A student with credit from an approved college or university for courses similar to those required by the College of Liberal Arts of students in the combined six-year course, may become a candidate for the degree of Bachelor of Science in Medicine, to be granted at the completion of the Medical course, on condition that all require-

ments be met and the medical courses be carried with good scholarship. Application for this degree must be made in writing to the Registrar early in the first semester of the first year, and will be acted upon by a committee of the Faculty, and the candidates will be notified of the result.

General Outline of Instruction

This Medical School now requires for admission evidence from its students of adequate collegiate preparation in physics, general chemistry, and zoölogy; consequently these subjects are not included in the curriculum.

The School was the first in the United States to establish a graded course of study and in the curriculum outlined in this catalogue the student advances from the fundamental laboratory courses to the clinical, bed-side subjects. The advantages of such gradation can be secured only by at least eight months consecutive attendance, and by beginning with the fall semester of each year. Deviation from the regular schedule of work is not allowed save by action of the Faculty.

The subjects taught in the first year are offered both in Evanston and Chicago. This arrangement permits medical students in Evanston to register for work in the College of Liberal Arts.

The first two years of the medical course are devoted almost entirely to practical work in the laboratories. The student approaches the practical subjects of the third year after completing those subjects preparatory to clinical medicine, and after courses in physical diagnosis and preliminary medicine in the second year. The principles of medicine, surgery, gynecology, and obstetrics are studied in recitations, in clinics given to small sections, in section work in the dispensary, and in larger clinics. The course in clinical pathology closely follows the clinical work, and is accompanied by clinics and recitations on nervous diseases, gynecology, eye and ear, nose and throat, surgery, internal medicine, genito-urinary surgery, dermatology, and diseases of children. In the fourth year the instruction is case-teaching and is largely clinical.

Throughout the course the classes, wherever it is possible, are limited in size, a matter of great advantage to the student as it gives him the privileges of personal instruction. The sections of classes are sufficiently small to give each student an opportunity to take for himself, under the personal supervision of his teacher, every step in the technique of laboratory and clinical courses.

Clinical instruction occupies most of the last two years and a

part of the second year. Clinical material is very abundant and is furnished by the South Side Dispensary, Calumet Avenue Dispensary, Wesley Hospital, Mercy Hospital, St. Luke's Hospital, Provident Hospital, People's Hospital, Cook County Hospital, and the Chicago Lying-in Dispensary. Some of the hospital and college clinics are attended by the entire class, but a number of clinics are given to small sections of twenty students, who thus receive individual instruction in physical examination, diagnosis, and treatment. The course at the Chicago Lying-in Dispensary is obligatory.

SCHEDULE OF WORK

FIRST YEAR

	Hours a week Lab'ory	Hours a week Recitation	Total Lab'ory	Total Recitation	
Anatomy—					
Gross (throughout year)	15		480		
Histology and Embryology (throughout year)	6	2	192	64	
Chemistry—					
Organic (first semester)	6	3	96	48	
Physiological (second semester)	6	4	96	64	
Physiology—					
General (second semester)	6	3	96	48	
			960	224	1,184

SECOND YEAR

	Hours a week Lab'ory	Hours a week Recitation	Total Lab'ory	Total Recitation	
Anatomy—					
Anatomical Neurology (10 weeks)	9		90		
Topographical	3	1	48	8	
Chemistry—					
Urinalysis (second semester)	4		64		
Medicine—					
Physical Diagnosis and Clinic (both semesters)		1½		48	
Pathology—					
First semester	6	5	96	80	
Second semester	6	5	96	80	
Pharmacology—					
Both semesters	3	3	96	96	
Physiology—					
*Second semester	4	3	48	48	
Physiological Neurology ½ semester	4	2		16	
Bacteriology—					
First semester	6	1	96	16	
			634	392	1,026

*Note—Laboratory for 12 weeks.

THIRD YEAR

	Hours a week Clin.	Hours a week Recitation	Total Clin.	Total Recitation
Medicine—				
Recitation (both semesters)		3		96
Dispensary (two months)	12		96	
Dispensary Section Clinic (one month)	6		24	
Clinic (both semesters)	2		64	
Clinical Pathology (one month)	18 (lab.)		72 (lab.)	
Clinical Pathology (one semester)		1		16
Surgery—				
Recitation (both semesters)		3		96
Dispensary (one month)	12		48	
Section Clinic (both semesters)	2		64	
Experimental (one month)	6		24	
Clinic (one semester)	1		16	
Genito-Urinary Dispensary (one month)	12		48	
Genito-Urinary Clinic (both semesters)	1½		48	
Obstetrics—				
Recitation (both semesters)		2		64
Pediatrics—				
Recitation (one semester)		1		16
Clinical Lecture (one semester)		1		16
Dispensary (one month)	12		48	
Nose and Throat—				
Dispensary (one month)	12		48	
Clinic (one semester)	1		16	
Eye—				
Dispensary (one month)	12		48	
Ear—				
Dispensary (one month)	12		48	
Gynecology—				
Dispensary (one month)	12		48	
Recitations (twenty weeks)		2		40
Drug Room—				
One month, total 30 hrs. required			30	
Dermatology—				
Dispensary (one month)	12		48	
Neurology—				
Dispensary (one month)	12		48	
Lectures (both semesters)		1		32
			886	376—1,262

FOURTH YEAR

	Hours a week Clin.	Hours a week Lect.	Total Clin.	Total Lect.
Medicine—				
Clinic, Dr. Edwards (year)	4		128	
Clinic, Dr. Preble (year)	2		64	
Lecture, Dr. Preble (year)		1		32
Clinic, (year)	1		32	
Clinic, (one semester)	2		32	

Groups, Clinic (year)	3		96	
Surgery—				
Clinic, Dr. Murphy (year)	4		128	
Clinic, Dr. Schroeder (year)	3		96	
Clinic, St. Luke's (year)	2		64	
Clinic, Dr. Andrews (one semester)	4		64	
Lectures, Genito-Urinary, Dr. Schmidt.		1		32
Pediatrics—				
Clinic, Dr. Walls (year)	1		32	
Clinic, Dr. Abt (year)	2		64	
Gynecology—				
Clinic, Dr. Dudley (year)	2		64	
Clinic, Dr. Watkins (one semester)	2		32	
Clinic, Dr. Andrews (one semester)	2		32	
Clinic, Dr. Barnes (one semester)	2		32	
Obstetrics—				
Operative (one month)	6		24	
Lectures (year)		2		64
Dermatology—				
Lectures (year)		1		32
Clinic (one semester)	1		16	
Neurology—				
Lectures (year)		1		32
Clinic (year)	1		32	
Medical Jurisprudence (one semester)		1		6
Sanitary Science—				
Lectures (year)		1		32
			1,032	230—1,262

Anatomy

PROFESSOR RANSON, PROFESSOR PRENTISS, DR. TRACY, MR. CHASE, MR. GIBSON, AND MR. KOCH

For the work in gross anatomy there are provided three large well-ventilated dissecting rooms, and three smaller rooms for special dissections by students or graduates. An additional room, equipped for the study of topographical anatomy, is open daily and gives the student an opportunity to supplement impressions gained in the dissecting room by a study of models, special dissections, and sections of formalin hardened bodies. There is an excellent refrigerating plant for the preservation of cadavers, with good facilities for embalming and storage.

The histological laboratory is well lighted and provided with the essentials for the study of microscopic anatomy. There is a complete set of Ziegler models for use in embryology and a permanent collection of histological, embryological, and neurological specimens. Facilities for research work are provided, and most of the important anatomical journals are found in the department.

The method of instruction is almost wholly objective. The student is encouraged to form clear conceptions of the objects studied in the laboratory, lectures and quizzes being used only to stimulate him to renewed interest in his laboratory work.

a. *Dissections of the Human Body*—Five three-hour periods throughout the first year. The body is divided into three parts, (1) upper extremity, (2) lower extremity and abdomen, (3) head, neck, and thorax. A careful dissection under direct supervision of instructors is supplemented once a week by a quiz of the class in small sections. Professor Ranson, Mr. Chase, Mr. Gibson, and Mr. Koch.

b. *Microscopical Anatomy and Embryology*—Two three-hour laboratory periods and two lectures or recitations a week throughout the first year. The work includes a thorough study of cells, tissues, and organs as to structure and development, with instruction in the ordinary methods of preparing tissues for microscopical examination. A clear understanding of the structures studied is given by tracing their origin in the embryo, and special stress is laid upon the identification by the students of the various normal tissues and organs. For this reason careful laboratory drawings are required. The course is divided into two parts:

1. *Cytology and Histology of the Normal Tissues*—(a) the study of cells, their structure, reproduction; (b) segmentation and the formation of the germ-layers in the embryo; (c) the structure and development of the normal tissues. First twelve weeks of the first semester.

2. *Development and Histology of the Human Organs*—(a) From a study of whole mounts, dissections and serial sections of mammalian embryos the origin and development of the organs is traced, thus leading up to (b) a thorough study of the microscopical structure of the adult organs, exclusive of the central nervous system. Last three weeks of the first semester and second semester: Professor Prentiss, Dr. Tracy, and Assistants.

c. *Gross and Microscopical Anatomy of the Human Central Nervous System*—A course of lectures, recitations, and laboratory work of three three-hour periods a week during the first 10 weeks of the second semester of the second year. Each student dissects a human brain, and studies a series of microscopical sections through typical regions of the brain and spinal cord. Professor Prentiss, Dr. Tracy, and Assistants.

d. *Lectures on Topographical Anatomy*—One lecture a week in February and March of the second year. Professor Ranson.

e. *Laboratory Work in Topographical Anatomy*—Open to students who have credit for Course a. One three-hour period a week during the second semester. Transverse and longitudinal sections through formalin hardened bodies; a continuation of the first-year course in dissections. Professor Ranson.

f. *Special Problems in Anatomy*—Opportunity is offered for suitably trained students to carry on investigations of an original character in Neurology, Embryology, Histology, and other branches of Anatomy. Professor Ranson and Professor Prentiss.

g. *Dissection of the female abdomen and pelvis*—Elective; limited to six students. Prerequisite Course a. Nine hours per week for the first six weeks in each semester. Professor Ranson.

Chemistry

PROFESSOR LONG, MR. JOHNSON, AND DR. WRIGHT

The work in chemistry extends through the first and second years and is required of all students. Commodious laboratories, well equipped for experimental work, are located on the fourth floor of the Laboratory Building. The Chemical Lecture Room is on the third floor, as are also the Chemical Museum, a small laboratory for advanced work and special problems, and the private laboratory and office of the head of the department.

FIRST YEAR

a. *Organic Chemistry*—This course comprises three lectures a week during the first semester, and is intended to cover the general principles of this fundamental branch of chemical science. The work in organic chemistry is a proper and necessary introduction to the physiological chemistry of the second semester, and is abundantly illustrated by aid of models and an excellent collection of organic preparations. Professor Long.

b. *Organic Chemistry, Laboratory Course*—The work in this course is given in the first semester, and consists in the preparation of certain organic compounds described in the didactic course. These compounds are selected mainly with reference to their illustrative importance. Two three-hour periods each week. Professor Long and Mr. Johnson.

c. *Volumetric Analysis*—Two periods each week during the first half of the first semester. Enough work is given in this course

to familiarize the student with the general principles of this branch of analysis and to serve as an introduction to the practical work required in physiological chemistry. Mr. Johnson.

d. *Physiological Chemistry*—Lectures and demonstrations three times a week during the second semester of the first year. This is a systematic course covering the whole field of general physiological chemistry and repeats and extends the organic chemistry of the carbohydrates, the fats, and the proteins. The nature of ferments and digestive agents is fully discussed with special reference to the digestion of ordinary foods, and the connection between the foods and the products of metabolism, especially of protein metabolism, is presented. The chemistry of the blood, the urine, the feces, and the products of various organs is given as fully as time permits. Attention is given also to the important questions of nutrition and the practical value of different foods, keeping in mind the bearing of these questions on topics of internal medicine. An attempt is made to sift out from the great mass of physiological chemical literature that which is likely to prove of permanent importance in the practice of medicine and to present it in proper order. Professor Long.

e. *Physiological Chemistry*—Laboratory course covering the study of foods, digestive agents, products of metabolism, and various fluids of the body. The important properties of the fats, carbohydrates, and the commoner proteins reviewed experimentally. Two three-hour periods a week during the second semester. Professor Long and Mr. Johnson.

f. *Quiz Courses*—Covering the work offered by courses d and e. One hour each week. Dr. Wright.

SECOND YEAR

g. *Urine Analysis*—A laboratory course is given in two periods a week during one semester. The more exact recent quantitative processes presented with the usual routine methods. Mr. Johnson.

h. *Special Laboratory Courses*—Opportunity given for more advanced work in several lines of physiological chemistry. Professor Long and Mr. Johnson.

Gynecology

PROFESSOR DUDLEY, PROFESSOR FRANK T. ANDREWS, PROFESSOR WATKINS, PROFESSOR FRANKENTHAL, PROFESSOR GILLMORE, PROFESSOR BARNES, DR. CUTHBERTSON, DR. LEWIS, DR. PAVLIK, DR. CURTIS, DR. COBURN, DR. GOLDSTINE, AND DR. J. J. ANDREWS

Instruction comprises recitations, dispensary clinics, conferences, and surgical clinics. The clinics are given in St. Luke's Hospital, Wesley Hospital, Mercy Hospital, and to divided classes in the Dispensary. All students are required to make themselves proficient in general gynecological diagnosis and treatment, and with this object in view, are brought into close personal relation with a large number and variety of cases in the Dispensary. Three operative clinics a week, on the average, are given in hospitals in the immediate vicinity of the College. These clinics afford the student abundant opportunity to familiarize himself with all the major and minor operations of gynecology. Not only a theoretical, but a practical knowledge of gynecology is a prerequisite for graduation.

THIRD YEAR

a. *Dispensary*—Two hours daily for one month. 2-4.

b. *Recitations*—Two one-hour periods each week for twenty weeks. Professor Gillmore and Dr. Curtis.

FOURTH YEAR

c. *Operative Clinic at St. Luke's Hospital*—Two hours per week. Professor Dudley, October to April. Professor Frankenthal, April to June.

d. *Operative Clinics at Wesley Hospital*—One two-hour period throughout the year. One-half the class each semester. Professor Watkins.

e. *Operative Clinic at Mercy Hospital*—One two-hour period throughout the year. One-half the class each semester. Professor Frank Andrews.

f. *Operative Clinic at Mercy Hospital*—One two-hour period throughout the year. One-half the class each semester. Professor Barnes.

Medicine

PROFESSOR EDWARDS, PROFFESSOR N. S. DAVIS, PROFESSOR PREBLE, PROFESSOR WALLS, PROFESSOR ABT, PROFESSOR MIX, PROFESSOR DYCHE, PROFESSOR CHESTER, PROFESSOR A. DAVIS, PROFFESOR ELLIOTT, PROFESSOR BUHLIG, AND ASSISTANTS

The course in physical diagnosis in the second year lays a broad foundation for the medical courses which are to follow. A thorough course is given in the technique of physical diagnosis, beginning with laboratory work upon the normal subject and illustrated by typical cases from the clinics.

SECOND YEAR

a. *Physical Diagnosis Clinic*—Cases chosen from Mercy Hospital are brought before the class and presented with special reference to diagnosis. Each student is expected to keep a record of such cases, to group and co-ordinate all cases of the same class, and to present his notes with a thesis on one group of cases. Once a week. Professor Mix.

THIRD YEAR

The class is divided into small sections not exceeding twenty students in number. Throughout both semesters each section assembles for three recitation periods of one hour each and one two-hour clinical period. In the recitation periods special attention is paid to the explanation of the morbid phenomena of disease by the application of the principles of physical diagnosis, special pathology, and pathological physiology, which have been given in the second year.

Cases presented in the clinical period are selected with special reference to the subjects already considered in the recitation course. In both recitation and clinical periods due attention is given to applied therapeutics.

An important feature of the medical instruction in the third year is the work in the medical department of the South Side and the Calumet Avenue Dispensaries. Small sections of eight or ten students are assigned to a service of eight weeks each, during which each student receives personal instruction in the application of his work of previous years in physical diagnosis, in the methods of differential diagnosis, in symptomatology, in therapeutics, and in prescription writing. A knowledge of drugs and their action being essential before prescriptions for the sick are attempted they are

studied before clinical teaching is begun. For the same reason general pathology and special pathology are taken in the second year. The course in clinical pathology is so conducted that the laboratory findings and the clinical side of the cases are closely associated in the mind of the student. Personal service to patients and individual opportunity to put into practice the didactic and clinical instruction of the various departments have always been a leading feature of instruction in this department.

b. *Recitations from Text-Books*—Three hours a week. Prof. Dyche, Professor Achilles Davis, Professor Elliott, Dr. Osgood, and Assistants.

c. *Clinic*—One two-hour clinic to the entire class, covering clinical medicine and therapeutics. Professor Davis and Professor Elliott taking half the class each semester.

d. *Dispensary*—Each student spends eight weeks in the dispensary and four weeks in a clinic held in connection with the dispensary. Daily 10-12.

e. *Laboratory Diagnostic Methods*—A laboratory course in the chemical, bacteriologic, and microscopic methods used in diagnosis. The examination of urine, blood, stomach contents, feces, sputum, pus, fluid exudates, smears and culture from nose and throat, etc., special emphasis being laid upon the interpretations from the results. The routine laboratory work of Wesley Hospital is now being done in this laboratory and, with the material from the South Side Dispensary, gives opportunity to students to make all the numerous tests necessary for diagnosis. Eight sections of about fifteen students each. Each section attends afternoon periods of three hours each for one-fourth of a semester. One lecture a week during the first semester. Professor Buhlig and Assistants.

f. *Drug Room Dispensing*—Each third-year student spends 30 hours in the Dispensary Drug Room in practical prescription writing and compounding. Dr. Casey.

FOURTH YEAR

Medical instruction in the fourth year is largely clinical. In the large clinics the students are required to examine and diagnose the cases. Semididatic summaries of symptoms, cases, the principles of diagnosis, prognosis, and the minute details of therapy are given special prominence.

In the small classes the fourth year students are taken to the

bedside of the patient and there become familiar with the variations in the full clinical course of the cases.

The fourth year students are assigned to the out-patients in the capacity of clinical assistants, and they are held strictly responsible for the care of the patients, and are required to compile complete data on all features of selected cases.

g. *Clinic and Lectures*—Michael Reese Hospital. Two two-hour periods throughout the year. Professor Edwards.

h. *Clinic*—St. Luke's Hospital. One two-hour period throughout the year. Professor Preble.

i. *Lectures*—Medical School, one lecture each week throughout the year. Professor Preble.

j. *Clinic*—Mercy Hospital. One one-hour period throughout the year. Professor Mix takes three-fourths of the class and Dr. Mandel one-fourth.

k. *Clinic*—Wesley Hospital. One two-hour period throughout the year. One-half the class attends each semester. Dr. Goldsmith.

l. *Section Clinics*—The class is divided into two sections. Each section meets twice a week. Professor Dyche, Professor Chester, Dr. Mandel, and Dr. Osgood.

SUB-DEPARTMENT OF DERMATOLOGY AND SYPHILOLOGY

PROFESSOR ZEISLER, PROFESSOR PARDEE, DR. SIMPSON, AND DR. JACOBSON

The very abundant clinical material gives the students in the dispensary an opportunity to examine each case personally. The most instructive cases are reserved for the general weekly clinic, where they are demonstrated and discussed exhaustively. Special attention is paid to different diagnosis, histopathology, and the treatment of dermatoses most frequently encountered by the general practitioner.

THIRD YEAR

a. *Dispensary*—One month. Daily 2-4.

FOURTH YEAR

b. *Clinical Lectures*—One period a week throughout the year. Professor Zeisler.

c. *Lectures*—One period a week in second semester. Professor Zeisler.

SUB-DEPARTMENT OF LARYNGOLOGY AND RHINOLOGY

PROFESSOR MENGE, PROFESSOR MARQUIS, DR. YOUNGER, DR. DENNIS, DR. MACLAY, DR. STEWART, AND DR. BRACKEN

Instruction in the Department of Laryngology and Rhinology is given in large general clinics as well as in small sections in the dispensary. Actual individual teaching is accomplished in the dispensary by giving each student his own work-place fully equipped with electric light, compressed air, and examination instruments and by assigning patients to him. Thus he learns the technique of examination, the commoner diagnoses, and various methods of treatment which he himself pursues.

The quarters in the dispensary comprise a suite of rooms including an examination room, a dark room, and two large rooms for general instruction. These rooms are admirably equipped for the purpose of clinical instruction.

The operative clinics are held in Wesley Hospital, and being supplied by the abundant material from the dispensary and hospital, are held in systematic order, the cases shown exemplifying the regular routine of the lecture course.

THIRD YEAR

a. *Laryngology and Rhinology*—Clinical lecture one hour a week. One semester. Professor Menge.

b. *Clinical Lectures*—At the School or at Wesley Hospital for the dispensary section only. One a week throughout the year. Professor Menge.

c. *Dispensary Clinic*—Individual instruction in technique. Six periods a week for four weeks. Daily, 10-12.

SUB-DEPARTMENT OF OPHTHALMOLOGY

PROFESSOR PUSEY, DR. JORDAN, AND DR. TIVNEN

In the department of Ophthalmology an effort is made to give to the student the essentials of the subject. For teaching purposes there is complete equipment. The department has its own laboratory and abundant clinical material. Small sections of the class are assigned to this department for a given period, and during this time the subject is considered systematically, and cases showing the various diseased eye conditions are studied. The subject of refraction is considered in a general way.

THIRD YEAR

a. *Dispensary Clinic*—Six periods a week for four weeks. Daily 10-12.

FOURTH YEAR

b. *Clinic at Mercy Hospital*—To sections of the fourth year class, one period a week. Dr. Tivnen.

c. *Laboratory Course*—Study of the anatomy and histology of the eye. Professor Pusey.

d. *Laboratory Course*—Study of the pathology and bacteriology of the eye. Professor Pusey.

e. *Graduate Clinical and Refractive Course*—Hours to be arranged. Professor Pusey and Dr. Jordan.

SUB-DEPARTMENT OF OTOLOGY

PROFESSOR WILSON AND DR. McGIBBON

The department of Otology occupies half of the third floor of Davis Hall. In addition to rooms specially adapted to clinical instruction, a large laboratory has been equipped for graduate and research work. The dispensary rooms are well equipped for examining and treating ambulatory cases. The affiliated hospitals and the dispensaries afford a large amount of material for practical instruction. The students are assigned in small sections for a period of one month, in which the student is afforded the opportunity of acquiring a practical knowledge of the diseases of the ear.

THIRD YEAR

a. *Dispensary Clinic*—Demonstrations, dispensary practice, and recitations. Daily 10-12. Demonstrations three half-hour periods a week. Recitations two half-hour periods a week.

FOURTH YEAR

b. *Clinic at Mercy Hospital*—To sections of the fourth year class, once a week. Dr. Tivnen.

c. *Laboratory Course*—Study of the anatomy and histology of the ear. Hours to be arranged. Professor Wilson.

d. *Laboratory Course*—Study of the pathology and bacteriology of diseases of the ear. Hours to be arranged. Professor Wilson.

SUB-DEPARTMENT OF NEUROLOGY
CLINICAL NEUROLOGY
MENTAL DISEASES
AND MEDICAL JURISPRUDENCE

PROFESSOR CHURCH, PROFESSOR PATRICK, PROFESSOR GRINKER, PROFESSOR HECHT, AND ASSISTANTS

SECOND YEAR

a. *Physiology of the Nervous System*—Special reference to neurology. Professor Grinker.

THIRD YEAR

b. *Neurology*—Recitation course. One hour a week. Both semesters. Professor Hecht.

c. *Dispensary*—One month. Daily 2-4.

FOURTH YEAR

d. *Diseases of the Nervous System and Mental Diseases*—One lecture a week throughout the year. Professor Church.

e. *Clinical Lecture*—Once a week. First semester. Professor Patrick and Professor Hecht.

f. *Clinical Lecture*—Special reference to hospital cases. Once a week. Second semester. Professor Church and Professor Grinker.

g. *Medical Jurisprudence*—One lecture a week. First semester. Professor Hecht.

SUB-DEPARTMENT OF PEDIATRICS

PROFESSOR WALLS, PROFESSOR ABT, PROFESSOR BRENNEMANN, DR. CAMPBELL, DR. CHENEY, DR. KROST, DR. HESS, AND DR. JAMPOLIS.

It is the plan of this department to make its instruction chiefly clinical and personal.

THIRD YEAR

a. *Didactic Lecture*—One period a week. One semester. Professor Walls, and Professor Brennemann.

b. *Recitations*—One period a week. One semester. Professor Walls, Professor Brennemann, Dr. Campbell, Dr. Cheney, and Dr. Krost.

c. *Dispensary—Children's Clinic*—Six periods a week for four weeks. Daily, 10-12.

d. *Diet Kitchen*—Examination and preparation of infant foods. Daily 10-12. Professor Walls.

FOURTH YEAR

e. *Clinic*—St. Luke's Hospital—One one-hour period each week throughout the year. Professor Walls.

f. *Clinic*—Michael Reese Hospital—Two one-hour periods each week throughout the year. Professor Abt.

Obstetrics

PROFESSOR DE LEE, PROFESSOR REED, DR. MONASH, DR. STOWE, DR. HILLIS, DR. BOWE, AND DR. HOROVITZ

The teaching in this department is clinical, didactic, by demonstrations, by individual exercises on the manikin, and by recitations and conferences in large and small classes. Obstetric cases in Mercy, Provident, and Wesley Hospitals are used for teaching. All fourth year students attend in residence, the Chicago Lying-in Hospital and Dispensary. Each student sees and conducts personally six to ten labors in the homes of patients, or in the hospital under the guidance of the assistant physicians. The pathological material is abundant. Members of the teaching staff will give optional courses on special Obstetric subjects at the requests of small groups of students. The Obstetric Laboratory is at the service of students desiring to do special work.

THIRD YEAR

a. *The Physiology of Pregnancy, Labor, and the Puerperium*—Throughout the year. Two recitations a week. Professor Reed and Dr. Monash.

FOURTH YEAR

b. *The Pathology of Pregnancy, Labor, and the Puerperium*—Throughout the year. Two lecture recitations a week. Professor De Lee.

c. *Individual Practice on the Manikin*—Sixteen exercises for each group of six students. Three periods for one month.

d. *Demonstrations*—Students of the third and fourth years attend obstetric demonstrations, and labors conducted by Professor De

Lee and Professor Reed in the amphitheater of Wesley Hospital. Attendance on six labors is necessary for graduation.

e. *Residence Course*—At Lying-in Dispensary. Two weeks selected by each student during senior year.

Pathology and Bacteriology

PROFESSOR ZEIT, DR. JACKSON, AND DR. GLENN

The laboratories of pathology and bacteriology and the museum of the department occupy the second floor of the main building. The laboratories are well equipped for general class work, as well as for individual research. The museum of pathology contains a very complete and excellent collection of pathological specimens, most of which are preserved in natural colors. Liberal use is made of these specimens for instruction and practical exercises in morbid anatomy. The museum is open at all times for inspection. The number of public autopsies, held in the large amphitheater, is ample and together with the large museum collection and the fresh material obtained from hospital and private post-mortems, many of which are attended by small sections of students, furnish abundant opportunity for the study of morbid anatomy and histopathology. The department is supplied with a valuable reference library and advanced students or physicians can be provided with good facilities for research work.

The courses in pathology and bacteriology are given during the second year and consist of laboratory work, demonstrations, lectures, and recitations. The courses in general pathology and bacteriology are given during the first semester, special pathology during the second semester. The whole class attends all post-mortems held during the two semesters of the second and third years, one hundred hours of attendance at autopsies being required. During both semesters the class attends two lectures a week on bacteriology and pathology of infectious diseases and immunity, and two lectures a week on pathology. Many of these lectures are illustrated by lantern slides and demonstrations. During the second semester systematic exercises in anatomic diagnosis by means of Kayserling specimens and fresh material are held regularly after the study of the pathology of each organ. The student is given representative material for the preparation of a complete and valuable collection of about 350 slides illustrating all the important pathologic lesions and micro-organisms which he has studied during his laboratory courses.

SECOND YEAR

a. *Bacteriology and Pathology of Infectious Diseases*—Lectures and demonstrations. Two hours a week. Both semesters. Professor Zeit.

b. *Bacteriology Laboratory Course*—The class is divided into sections, each section taking two periods of three hours each a week during the first semester. Dr. Glenn.

c. *Bacteriology Recitation Course*—One hour each week. First semester. Dr. Glenn.

d. *General Pathology*—Lectures and demonstrations. Two hours a week. First semester. Professor Zeit.

e. *General Pathology and Histopathology Laboratory Course*—The class is divided into sections, each section taking two periods of three hours each week during the first semester. Professor Zeit and Dr. Jackson.

f. *General Pathology and Histopathology Recitation Course*—One hour each week. First semester. Dr. Jackson.

g. *Special Pathology*—Lectures and demonstrations. Two hours a week. Second semester. Professor Zeit.

h. *Special Pathology*—Laboratory course. The class is divided into sections, each section taking two periods of three hours each week during the second semester. Professor Zeit and Dr. Jackson.

i. *Special Pathology Recitation Course*—One hour each week. Second semester. Dr. Jackson.

j. *Autopsies*—Second and third year class. College and hospital autopsies as announced on Bulletin Board. Students of the second and third years are excused from conflicting school duties. One hundred hours of attendance required. Professor Zeit and Assistants.

SECOND, THIRD, AND FOURTH YEARS—ELECTIVE

k. *Advanced Work and Research in Bacteriology*—Professor Zeit.

l. *Advanced Work and Research in Pathology*—Professor Zeit.

Pharmacology

PROFESSOR McGUIGAN, MR. MOSTROM, MR. VON HESS, AND MR. KURTZ

The department is adequately equipped for laboratory work in pharmacology and materia medica. Each student is supplied with

apparatus for individual work, except where it is more advisable to work in groups.

The work of the first semester is devoted to the physical and chemical properties of drugs and their official preparations. At least one representative of each pharmacopœial preparation is manufactured by the student. The active principle is separated wherever possible, especially where it illustrates a typical method. The main tests of identification are studied.

A prescription illustrating the dose and use of each drug is written at the time of its preparation. The more intricate and tedious processes of the chemical analysis of drugs are demonstrated by assistants.

The second semester is given to a study of the physiological action of drugs. The work is done in groups of two to six as occasion demands. The various physiological systems are studied in their normal state, and under the action of drugs. Records are kept of all observations and tracings. Each group is under personal supervision. At the end of the period a conference is held to compare the observations and to discuss the theory of the action.

SECOND YEAR

a. *Lectures in Pharmacology*—Two hours a week throughout the year. Professor McGuigan.

b. *Recitations in Pharmacology*—One hour a week throughout the year. Professor McGuigan.

c. *Materia Medica Laboratory*—Three hours a week during the first semester. Professor McGuigan and Assistants.

d. *Pharmacological Laboratory*—Three hours a week during the second semester. Professor McGuigan and Assistants.

THIRD AND FOURTH YEARS

e. *Research Work*—The laboratory open for research to a limited number of qualified workers. Professor McGuigan and Assistants.

Physiology

PROFESSOR HALL, PROFESSOR GRINKER, DR. KURTZ, AND ASSISTANTS

Instruction is based upon laboratory work and demonstrations. In the laboratory each student demonstrates for himself fundamental laws of physiology and observes the phenomena upon which these

laws are based. The demonstrations present experiments too difficult for the student to perform alone. The laboratory work and demonstrations form an experimental basis for the science of Physiology, which is presented systematically in the recitation course accompanying the experimental courses.

The equipment of the department includes a large laboratory, a smaller laboratory, an instrument room, departmental library, storage room, shop, preparation room, and facilities in the general animal house. The laboratories are well supplied with all of the instruments needed for scientific investigation, and excellent facilities are afforded for the study of the special senses, particularly vision.

FIRST YEAR

a. *General Physiology*—Cellular biology, and the physiology of muscle and nerve tissue and the muscular system. Lectures and demonstrations, three times a week, and laboratory work two periods a week. Living animals, principally unicellular organisms from aquaria, are used in the course in cell-physiology. Frogs are used in the second part of the course and the student has ample opportunity to work out the laws of contraction and of fatigue. In the last part of the course the human ergograph is used and the laws of human work formulated. Second semester, first half. Professor Hall and Assistants.

b. *The Physiology of Circulation and Respiration*—Recitations and demonstrations three periods a week. Through operations on mammals under anaesthesia, and through observations upon the human subject the phenomena of circulation and respiration are studied in detail. Laboratory, two periods a week. Second semester, second half. Professor Hall and Assistants.

SECOND YEAR

c. *Haematology*—The physiology of the blood. Recitations and demonstrations three times a week. The student makes an extended study of his own blood and that of other members of his group with the aid of improved clinical instruments. Thus he is able to master the technique of blood examination, and incidentally to familiarize himself with the properties of normal human blood. Laboratory work, two periods a week. One-fourth of a semester. Professor Hall and Dr. Kurtz.

d. *The Physiology of Digestion, Metabolism, and Animal Heat*—Recitations and demonstrations three times a week, first half of second semester. The chemistry of foods and digestion and me-

tabolism being covered in the department of chemistry, the department of physiology discusses the process of secretion and the conditions which modify glandular activity. The principles of dietetics are reviewed, and the metabolic changes which various foodstuffs undergo are followed through the system. Professor Hall.

e. *Physiology of the Special Senses and Central Nervous System*—Two laboratory periods a week for eight weeks, and three recitations a week for four weeks. The laboratory possesses extensive facilities for teaching the physiology of vision and special attention is given to the physics of refraction. One-half of second semester. Professor Hall and Assistants.

f. *Physiology of the Central Nervous System*—Lectures, demontrations, and recitations. Twice a week. One-half of second semester. Professor Grinker.

THIRD AND FOURTH YEAR—ELECTIVE

g. *Pathologic Physiology*—Four hours a week.

h. *Dietetics, Theoretical and Practical*—Four hours a week.

Sanitary Science

PROFESSOR EVANS

Required Lecture Course—The organization of a health department, contagious diseases, disinfection, school inspection, hospitals, dispensaries and ambulances, vital statistics, food control, laboratories, and sanitary bureaus, with demonstrations in the smallpox hospital, drainage canal, water works, and in garbage destruction. One lecture a week. Professor Evans.

Surgery

PROFESSOR MURPHY, PROFESSOR E. W. ANDREWS, PROFESSOR MORGAN, PROFESSOR PLUMMER, PROFESSOR HALSTEAD, PROFESSOR SCHROEDER, PROFESSOR SCHMIDT, PROFESSOR BESLEY, PROFESSOR RICHTER, PROFESSOR KANAVEL, PROFESSOR CUBBINS, AND ASSISTANTS.

The courses in surgery are systematically graded. Third-year students are given a thorough drill in recitations, conferences, clinics, and dispensary work covering the field of general surgery. Clinics are held at St. Luke's, Mercy, Cook County, Provident, People's,

Post Graduate, and Wesley Hospitals. Dispensary patients are treated in the South Side and Calumet Avenue Dispensaries.

THIRD YEAR

a. *Recitations and Conferences on Surgery*—To cover the subject of surgery, general and special, sections of the class meet three hours a week under each of the following: Professor Kanavel, Professor Besley, Professor Richter, Professor Cubbins.

b. *Dispensary Clinics at Medical School on General and Orthopedic Surgery*—Individual instruction in divided classes six times a week for four weeks. Daily, 2-4.

c. *Dispensary Clinics at Calumet Avenue Dispensary*—Daily, 10-12.

d. *Dispensary Clinics in Genito-Urinary Surgery at the Medical School*—Individual instruction in divided classes six times a week for four weeks. Daily, 2-4.

e. *Operative Surgery on Cadaver and Dog*—Laboratory. Second semester. Three periods a week for four weeks. Professor Cubbins and Associates.

f. *Clinical Lectures at Wesley Hospital Amphitheater*—Two two-hour clinics throughout the year. One-half the class each semester in each clinic. Professor Besley, Professor Richter.

g. *Clinic—Genito-Urinary Surgery*—Once a week. Professor Schmidt.

h. *Surgical Diagnosis Clinic*—One hour each week throughout the year. One-half the class each semester. Professor Kanavel.

FOURTH YEAR

i. *Surgical Clinics*—Two two-hour periods each week at Mercy Hospital. Professor Murphy and Assistants.

j. *Surgical Clinic*—One three-hour period each week at Wesley Hospital. Sat., 9-12. Professor Schroeder.

k. *Surgical Clinic*—St. Luke's Hospital. Two hours a week throughout the year. Professor Plummer and Professor Halstead.

l. *Surgical Clinic*—Mercy Hospital. Two two-hour periods throughout the year. One-half the class each semester. Professor E. W. Andrews.

m. *Lectures on Genito-Urinary Surgery*—One each week throughout the year. Professor Schmidt.

n. *Clinic in Genito-Urinary Surgery*—Alexian Brothers Hospital. Daily, 8-10. Professor Schmidt. Elective.

o. *Special Training in Orthopedic Surgery*—Selected students receive personal training at the Home for Destitute Crippled Children, in operative technique, in ordering and adjusting of braces, in applying plaster of Paris dressings, in selecting materials, and in the details of manufacture of orthopedic appliance. Fri., 1-3.

Buildings, Hospitals, and Hospital Staffs

The Laboratory Building is situated on Dearborn Street, between Twenty-fourth and Twenty-fifth Streets. It has a frontage of 110 feet, and a depth of 105 feet; is five stories above the basement, and is constructed of cut stone and brick, with terra-cotta trimmings. On the first floor are an amphitheater, the laboratories of physiology, and the rooms occupied by the medicine and surgery dispensary clinics; on the second floor are the laboratories for pathology, bacteriology, hygiene, and clinical pathology, and the pathological museum; and on the third floor, large laboratories for histology and embryology, with three smaller rooms for original research, equipped with necessary apparatus, a large lecture-room, a room for chemical and physical apparatus, and the private labortory of the Professor of Chemistry. On the fourth floor, one-half of the entire space is occupied by chemical and surgical laboratories, and the other half by the laboratories of physiological chemistry and pharmacology, with smaller rooms for research work. On the fifth floor are dissecting rooms, a room for demonstrating topographical anatomy, and three smaller rooms for special dissections.

Davis Hall was erected in the summer of 1893. On the first floor are the administrative offices and faculty rooms, a large amphitheater, an apothecary's room, an examination room for the director of the dispensary, and suites of rooms for the dispensary departments of laryngology and rhinology and genito-urinary surgery. On the second and third floors there are a small amphitheater, and suites of rooms equipped for the departments of gynecology, orthopedics, neurology, pediatrics, otology, ophthalmology, and dermatology. On the third floor large clinic rooms and research laboratories have been equipped for clinical research work in eye and ear diseases, done nowhere else in this country. Thirty thousand patients are treated

here annually. On the fourth floor are the library and reading-rooms.

The Calumet Avenue Dispensary is a two-story building erected in 1908 to provide for ambulatory patients. Sixteen clinic rooms ensure privacy and thoroughness of examination. In addition to these there are on the main floor a dark room, an X-Ray laboratory, a photographic room, with dark-room equipment and office, and a Director's room. On the second floor is a large assembly room. Two pathological laboratories are provided for investigation and research.

Mercy Hospital is situated on Twenty-sixth Street, extending from Prairie Avenue to Calumet Avenue. It is under the care of the Faculty of this School, and is conducted by the Sisters of Mercy. It receives over three thousand patients annually. A large new pavilion has just been erected. The capacity is about four hundred beds and the operating rooms are equipped with every modern facility.

Daily clinics are held in the hospital amphitheater, and at the bedsides in the wards. The members of the classes are allowed to examine cases for themselves in order to acquire a personal familiarity with the clinical aspects of a large variety of diseases. In groups of two or three, fourth year students are allowed to watch the progress of obstetrical cases under the direction of the house physicians. A laboratory, equipped for clinical bacteriology and microscopical work, is utilized for teaching purposes and for clinical examinations.

The annual fee for the Mercy Hospital ticket is six dollars.

Wesley Hospital stands beside the School buildings and is connected with them by a covered corridor. Among the most notable recent additions to the equipment of the Medical School are the operating rooms, wards, and laboratories of Wesley Hospital. The wards and private rooms contain together two hundred twenty-five beds. The instruction given to the students in Wesley Hospital constitutes a very important part of the clinical course. A new wing costing $110,000 has been erected, and the facilities thus provided make Wesley one of the best equipped hospitals in the West.

The Hospital has four large wards, of twenty beds each, separating the sexes, and medical from surgical patients. There are also eight smaller wards, a children's ward and two babies' wards. The patients from these larger and smaller wards are available for clinical instruction. Over four thousand patients were treated last year.

The annual fee is five dollars.

St. Luke's Hospital is situated on Indiana Avenue, near Fourteenth Street. Owing to its central location, it receives many accident cases, and its surgical clinic is large. Clinics are given regularly

in medicine, surgery and gynecology, and are attended principally by the fourth year students. The addition of the new George Smith Memorial Pavilion gives this hospital a superior equipment, and a capacity of over four hundred beds.

Provident Hospital is situated at the corner of Thirty-sixth and Dearborn Streets. It has been enlarged and now has one hundred beds, accommodating eight hundred patients annually. A large dispensary treats about six thousand ambulatory patients each year.

The People's Hospital is a private institution, organized in 1897 by Dr. I. C. Gary, Northwestern University, 1889, as an ideal wage-earner's hospital for persons in moderate circumstances.

It is conveniently situated at the corner of Archer Avenue and Twenty-second Street, within short walking distance of the School. One interne is appointed each year from the graduating class at the School, and two fourth year students live at the hospital and serve as assistants. The hospital is well supplied with operating rooms and with a complete laboratory, and is open to the School for clinical teaching.

The Chicago Lying-In Hospital and Dispensary offers a clinical and didactic course. Each fourth year student takes a course of two weeks during which he conducts from six to ten labors, under the supervision of the resident staff, and attends the mother and child during the puerperium.

The Hospital is situated at 515 South Ashland Boulevard, the Dispensary at 1332 Newberry Avenue, in the most thickly populated district of Chicago. Its work is done in the homes of the patients. Over eleven hundred patients are confined in this service yearly—one hundred and fifty in the Hospital, and nine hundred and fifty in the Dispensary.

An essential and valuable part of the fourth year course are the two weeks spent by each student in residence at the Lying-in Dispensary. This institution is situated in the heart of the poorer districts of Chicago, and it cares for poor women during confinement at their own homes. A physician, a student, and a nurse are sent to the patient's house, and take care of her during labor just as she would be treated if she were well-to-do. The student and nurse visit mother and babe daily for ten days afterward. The student learns a definite and minute aseptic technique and system in obstetric work, beside gaining accurate knowledge of the mechanism and conduct of labor. He learns the physiological manifestations of the puerperal changes, and studies the newly born child as it accommodates itself

to extra-uterine existence. Thus in later practice he will be able to distinguish the diseased from the normal conditions.

The pathological service is large, and each student sees and assists at three or more operations either in the Dispensary service itself or in the hospitals allied to the School to which the patients are transported. During the two weeks in residence, he personally attends six or more deliveries and makes 80 to 120 post partum visits. His time not spent at cases is employed in studying obstetrics and in obstetric colloquia with the physicians.

The fee for the course is fifteen dollars, payable in advance to the Hospital.

The Cook County Hospital is a public institution situated at the corner of Wood and Harrison Streets. The average number of patients is between nine hundred and a thousand daily. It is open to all medical schools for clinical instruction. About a thousand students attend its clinics.

Clinics by members of this Faculty are given every Friday.

Hospital Staffs

The following lists contain the names of the members of the Faculty of Northwestern University Medical School who are on the staffs of the various hospitals.

MERCY HOSPITAL

CONSULTING PHYSICIAN

Frank S. Johnson, M.D.

ATTENDING STAFF

Surgeons—J. B. Murphy, M.D., E. W. Andrews, M.D., William E. Morgan, M.D., Frank E. Pierce, M.D., John F. Golden, M.D.

Obstetricians—Joseph B. DeLee, M.D., David F. Monash, M.D., Herbert M. Stowe, M.D.

Gynecologists—Frank T. Andrews, M.D., Thomas J. Watkins, M.D., Walter S. Barnes, M.D.

Physicians—Nathan S. Davis, M.D., Paul Chester, M.D., Milton Mandel, M.D., Charles Louis Mix, M.D.

Oculist and Aurist—Richard J. Tivnen, M.D.

Neurologist—Archibald Church, M.D.

Dermatologist—Joseph Zeisler, M.D.
Laryngologist—Frederick Menge, M. D.
Pathologist—F. Robert Zeit, M.D.
Pediatrician—Robert A. Krost, M.D.

WESLEY HOSPITAL

ATTENDING STAFF

Thomas J. Watkins, M.D., Chairman
Frederick Menge, M.D., Secretary

Physicians—Arthur R. Edwards, M.D., Robert B. Preble, M.D., Nathan S. Davis, M.D., Charles A. Elliott, M.D., Achilles Davis, M.D., George B. Dyche, M.D.
Pediatrician—Frank X. Walls, M.D.
Neurologists—Archibald Church, M.D., Hugh T. Patrick, M.D.
Dermatologists—Joseph Zeisler, M.D., Lucius C. Pardee, M.D.
Pathologists—F. Robert Zeit, M.D., Walter H. Buhlig, M.D.
Surgeons—William E. Shroeder, M.D., Frederick A. Besley, M.D., Harry M. Richter, M.D., Allen B. Kanavel, M.D.
Gynecologist—Thomas J. Watkins, M.D.
Obstetricians—Joseph B. DeLee, M.D., Charles B. Reed, M.D.
Laryngologist—Frederick Menge, M.D.
Ophthalmologist—Brown Pusey, M.D.
Aurist—John G. Wilson, M.D.
Genito-Urinary Surgeon—Louis E. Schmidt, M.D.

ADJUNCT STAFF

Physicians—Alexander A. Goldsmith, M.D., Luther J. Osgood, M.D.
Pediatricians—Joseph Brennemann, M.D., Robert A. Krost, M.D.
Neurologists—Julius Grinker, M.D., D'Orsay Hecht, M.D.
Dermatologist—Frank E. Simpson, M.D.
Gynecologists—Robert T. Gillmore, M.D., Mark T. Goldstine, M.D., Arthur H. Curtis, M.D.
Surgeons—Charles M. Fox, M.D., Frank D. Francis, M.D., Rupert Parker, M.D., Ernest C. Riebel, M.D., J. F. Churchill, M.D., C. A. Erickson, M.D., W. R. Cubbins, M.D.
Obstetricians—Herbert M. Stowe, M.D., Fred Werner, M.D.
Laryngologists—Charles B. Younger, M.D., George J. Dennis, M.D.

ASSISTANT STAFF

Physicians—Alfred J. Willetts, M.D., Leo. G. Dwan, M.D.

Surgeons—Norman Curry, M.D., Guy Gowan, M.D., Arthur B. Eustace, M.D., Gordon T. Courtenay, M.D., John A. Wolfer, M.D.

Gynecologist—Otto S. Pavlik, M.D.

Laryngologist—Otis H. Maclay, M.D.

Aurist—Walter P. McGibbon, M.D.

Oculist—George T. Jordan, M.D.

Neurologist—Albert B. Yudelson, M.D.

Genito-Urinary Surgeon—Victor D. Lespinasse, M.D.

ST. LUKE'S HOSPITAL

ATTENDING STAFF

Surgeons—A. E. Halstead, M.D., W. E. Morgan, M.D., S. C. Plummer, M.D.

Gynecologists—E. C. Dudley, M.D., T. J. Watkins, M.D., L. E. Frankenthal, M.D., Wm. Cuthbertson, M.D.

Neurologist—Archibald Church, M.D.

Laryngologists and Rhinologists—W. E. Casselberry, M.D., George P. Marquis, M.D.

Physicians—Robert B. Preble, M.D., N. S. Davis, M.D.

Pediatricians—Frank X. Walls, M.D., Joseph Brennemann, M.D., H. W. Cheney, M.D.

PROVIDENT HOSPITAL

CONSULTING STAFF

Surgeons—William E. Morgan, M.D., William E. Schroeder, M.D.

Gynecologists—Emilius C. Dudley, M.D., Thomas J. Watkins, M.D.

Laryngologist—Frederick Menge, M.D.

Children's Diseases—Isaac A. Abt, M.D.

Pathologist—W. H. Buhlig, M.D.

ATTENDING STAFF

Obstetricians—Joseph B. DeLee, M.D., Herbert M. Stowe, M.D., David S. Hillis, M.D.

Physician—Luther J. Osgood, M.D.

Gynecologists—Emilius C. Dudley, M.D., Robert T. Gillmore, M.D.

Genito-Urinary Diseases—Albert E. Mowry, M.D.

Neurologist—Albert B. Yudelson, M.D.

THE PEOPLE'S HOSPITAL

CONSULTING STAFF

Surgeon—W. E. Morgan, M.D.
Gynecologists—F. T. Andrews, M.D., Robert T. Gillmore, M.D.
Neurologists—Hugh T. Patrick, M.D., Archibald Church, M.D.
Physician—A. R. Edwards, M.D.

ATTENDING STAFF

Surgical—Wm. E. Schroeder, M.D., Surgeon in Chief; E. C. Riebel, M.D., Associate Surgeon in Chief.
Medical—C. A. Elliott, M.D.

COOK COUNTY HOSPITAL

Surgeons—E. W. Andrews, M.D., Frederick A. Besley, M.D., Albert E. Halstead, M.D., W. E. Schroeder, M.D., F. E. Pierce, M.D., H. M. Richter, M.D.
Physicians—A. A. Goldsmith, M,D., W. S. Harpole, M.D., C. L. Mix, M.D., R. B. Preble, M.D.
Obstetrician—H. M. Stowe, M.D.
Pediatrician—I. A. Abt, M.D.
Oculist—Brown Pusey, M.D.
Orthopedic Surgeon—H. B. Thomas, M.D.
Pathologist—W. A. Evans, M.D.
Neurologist—Julius Grinker, M.D.

General Announcements

LOCATION

The Medical School is in Chicago, on Dearborn Street between Twenty-fourth and Twenty-fifth Streets. It is the only Medical School on the South Side, and consequently is furnished with an almost exhaustless supply of clinical material. Wesley Hospital is situated on the corner of Dearborn and Twenty-fifth Streets, and is connected with the Medical School buildings by corridors. Mercy Hospital is a short walking distance to the east of the School, and St. Luke's is nearby, to the north of the School.

Provident Hospital is to the south on Dearborn Street, and the People's Hospital is west on Twenty-second Street at Archer Avenue.

Cook County and the Lying-In Hospitals are within a short car ride of the School buildings.

TO REACH THE MEDICAL SCHOOL

Take the South Side Elevated Railroad to Twenty-sixth Street. The School is one block west and one block north. The State Street cars stop at Twenty-fifth Street, one block east of the Medical School. Or, take Through Route No. 22, or Wentworth Avenue cars to Twenty-fifth Street and walk three blocks east.

THE LIBRARY

The Library of the Medical School, formerly known as the Alumni Library, is situated on the fourth floor of Davis Hall. It has been acquired by purchase and by donations from students, alumni, and members of the faculty. It contains a large number of reference books, dictionaries, current journals, and all of the larger systems of Medicine and Surgery. Each department of instruction in the School is well represented, and all of the more important recent works in the various departments of instruction are added to the Library as they appear. The Library is open from 8:30 to 5 o'clock daily. An attendant is constantly present, to aid the student. Special attention is paid to current medical literature, and to the completion of files of standard journals.

THE PATTEN RESEARCH FUND

In 1910 Mr. James A. Patten of Evanston donated to the University securities yielding an annual income of $13,000, which is to be expended in a scientific investigation of the factors that cause disease and in a study of the defensive forces that protect the body against the microbes of disease. While this gift is unfettered by restrictions, the donor expressed a hope that attention would be directed to tuberculosis or some subject bearing on this malady. The University gladly welcomed a fund to be expended in medical research believing that thereby the progress of scientific medicine would be stimulated and that distinct benefit would accrue to the University as a teaching and investigating institution in medical research; also that through its laboratories such investigations would be carried on as would redound to the well-being of mankind.

VAIL RESEARCH FUND

Dr. A. S. Vail established a research fund by a gift of $1,000.00, which has been increased by later contributions from the original

donor and others. The interest on the principal is used for research fellowships. Gifts from alumni will be welcomed.

THE RUFUS H. SAGE SCHOLARSHIP IN THE MEDICAL SCHOOL

From a bequest in the will of the late Mrs. Ellen Sage, a scholarship yielding a yearly income of $150 has been established and will be awarded annually. Additional bequests from the same estate provide for scholarships in the College of Liberal Arts and in the Law School.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association of Northwestern University Medical School was organized in 1892 and is connected with the Inter-collegiate Department of the Chicago Association. Its members obtain the full privileges of any of the Association buildings in this city at sixty per cent of the regular rates.

The Association aims to maintain a high moral and religious tone in the School. It conducts a religious meeting once a week during the college year and weekly classes in Bible-study. Committees of the Association aid students in obtaining board and rooms. Connected with the Medical School Association is an efficient employment bureau conducted under the supervision of a General Secretary. A canvass is made each summer and places are found for students wishing to earn money during the medical course. Students who desire partly to support themselves while attending school are urged to correspond with the Secretary of the Association.

FEES AND EXPENSES

Matriculation Fee—The student is required to pay at the time of his first registration a matriculation fee of five dollars, which is paid but once, is charged to all students alike, and is in no case refunded.

Annual Fee—The annual fee is one hundred seventy-five dollars, due in installments as follows: Before October 6, $60.00; before January 4, $60.00; before April 2, $55.00. *Failure to comply with this regulation entails suspension from the quiz lists.* A discount of $15.00 is made when all fees and deposits for the year are paid on or before the second day of school.

Hospital Fees—The hospital fees are payable at the various hospitals:

Mercy Hospital ..... $ 6.00
Wesley Hospital 5.00

Lying-in Hospital 15.00
Cook County Hospital 5.00

Examination Fee—A fee of five dollars is charged for a special examination taken out of course.

Laboratory Fees—Each student who does not possess a microscope may use those belonging to the University by paying $2.50 each semester.

In Clinical Pathology each student is charged $1.00 for the use of a microscope.

For each part redissected in the Anatomical Laboratories a charge of $7.00 is made. The cadaver is divided into six parts for the purposes of instruction, namely: head, neck, thorax, arm, abdomen and leg. Special students not regularly entered for a degree pay $10 for a dissection of each of the above named parts.

A deposit of $5.00 is required from each student in the following courses: Histology, Bacteriology, Pathology, and Clinical Pathology. The fee purchases a materials ticket entitling the holder to use laboratory supplies to the full value of his ticket. The unused balance is refunded to him at the end of the course.

A deposit of ten dollars is required from each student, payable on or before the first Monday in October, to cover breakage and injury to apparatus in the laboratories, unnecessary damage to buildings, loss of instruments in laboratories and clinics. This deposit is refunded if no injury or loss occurs. Deductions to cover loss are made from the deposit of individual students, when it can be determined who has caused breakage or loss of apparatus or defacement of buildings; when it cannot be so determined, the loss or injury is deducted pro rata from the deposits of all students.

Refunds—No refund of tuition fees is made except on account of serious illness. A student withdrawing before the middle of a semester who secures from the Dean a statement of honorable standing and from a physician a certificate of inability to remain in attendance, is allowed one-half the tuition fee for that semester.

Assignment of Seats—Students of the three upper classes may register and secure seats in the amphitheaters at the opening of the session, or they may do so at an earlier date by sending five dollars to the Registrar of the School.

The right is reserved to alter fees and to levy new fees without notice, as conditions may demand. Drafts should be made payable to Northwestern University.

Special students are charged $25.00 a semester, for each laboratory course, with its accompanying lectures, and $25.00 for each

month of clinical work taken, including the course in Clinical Pathology, with the exception of the courses in gross Anatomy. These courses are charged at the rate above mentioned for dissections of parts of the cadaver. Alumni are welcome to attend clinics and lectures for a brief time—those taking all of the work of any one year pay the same fee as regular students.

BOARD AND LODGING

There are no residence halls for the use of the medical students, but board and lodging may be obtained at reasonable rates in private families who live near the school. A list of these places is maintained by the College Y. M. C. A. and students may apply to the Secretary for this information.

ESTIMATED COST OF LIVING

	Lowest	Average	Liberal
Matriculation fee, payable but once...	$ 5.00	$ 5.00	$ 5.00
Tuition, for each year	160.00	160.00	160.00
Breakage fee, for each year.....	10.00	10.00	10.00
Laboratory and Hospital tickets.....	5 to 25.00	5 to 25.00	5 to 25.00
Board and room	129.00	180.00	252.00
Laundry	24.00	36.00	45.00
Books and Instruments	15.00	22.00	35.00
Incidentals	50.00	75.00	100.00
	$398 to $418	$493 to $513	$613 to $632

TEXT-BOOKS AND BOOKS FOR REFERENCE FOR 1912-1913

The names of Text-books used are printed in capitals and small capitals.

Dictionaries—GOULD; Century.

Anatomy—CUNNINGHAM; Piersol; Gray; Morris; Quain; Atlases of Spalteholz, Toldt, Sabotta.

Histology—PIERSOL; STOHR; Stöhr-Lewis; Bailey; Böhm-Davidoff; Böhm-Davidoff-Huber.

Embryology—QUAIN; McMurrich; Bailey and Miller; Minot.

Anatomical Neurology—MORRIS' HUMAN ANATOMY, PART III; SOBOTTA'S ATLAS OF HUMAN ANATOMY, VOL. III; Neurological sections of standard anatomies and histologies.

Physiology—HALL'S TEXTBOOK OF PHYSIOLOGY; HALL'S MANUAL OF EXPERIMENTAL PHYSIOLOGY; Text-Books of Physiology by Howell, Brubaker, Landois.

Chemistry—LONG'S TEXT-BOOK OF PHYSIOLOGICAL CHEMISTRY; LONG'S URINE ANALYSIS; REMSEN'S ORGANIC CHEMISTRY; LONG'S ANALYTICAL CHEMISTRY.

Pharmacology—CUSHNY, TEXT-BOOK OF PHARMACOLOGY AND THERAPEUTICS; Sollman, Text-Book of Pharmacology; Schmiedeberg, Lehrbuch der Pharmakologie; The United States Pharmacopoeia.

Pathology—DELAFIELD AND PRUDDEN; ADAMI, GENERAL PATHOLOGY; WELLS, CHEMICAL PATHOLOGY; DURCK, PATHOLOGIC HISTOLOGY; MALLORY AND WRIGHT, PATHOLOGICAL TECHNIQUE; Ziegler's General and Special Pathology; Text-Books by Stengel, McFarland, Coplin, Schmaus, Cattell; Kaufman, Special Pathology.

Bacteriology—JORDAN; HEINEMANN; McFarland; Parks; Williams; Muir and Ritchie; Abbott; Kolle, and Wasserman.

Laboratory Diagnostic Methods—EMERSON, CLINICAL DIAGNOSIS; Wood, Chemical and Microscopic Diagnosis; Sahli, Diagnostic Methods; Simon; Long, and Hammersten, upon Physiological Chemistry; Cabot, on Blood.

Operative Surgery—STIMSON; BICKHAM; Morris' Human Anatomy, Part V.

Medical Jurisprudence—DRAPER; Reese; Taylor.

Nervous Diseases—CHURCH AND PETERSON; Dana; Gowers; Dercum; Gray; Mills.

Practice of Medicine—EDWARDS; Eichhorst; Strümpell.

Surgery—LEXER-BEVAN; KEEN; Martin von Bergman-Bull; Park; DaCosta; Wyeth; Bland Sutton on Tumors; Ochsner; Bryant; Jacobsen; American Text-book of Surgery; Waring's Manual of Operative Surgery.

Obstetrics—DE LEE'S OBSTETRICS; Williams; Edgar.

Physical Diagnosis—BUTLER; VIERORDT; Musser; Leube; Sahli; Lefevre; Cabot.

Diseases of Children—HOLT, KOPLIK; Cautley.

Gynecology—DUDLEY; Byford; Webster; Kelly; Emmett; Montgomery; Reed.

Laryngology—KYLE; COAKLEY; McBride; Wright; American Text-book of Eye, Ear, Nose and Throat.

Dermatology—STELWAGON; WALKER; JACKSON.

Routine of Registration

Each student before entering upon his work, is required to register in person at the office of the Registrar at the beginning of the year. On the registration days of the first semester students must register for the work of the whole year.

Applications for admission should be addressed to the Registrar of the Medical School. When presenting himself for admission the applicant should bring an official statement of his entrance credits, if he is entering the freshman class; a letter of honorable dismissal and an official statement of his previous work, if he is entering with advanced standing from another institution. These credentials will be passed upon by the Registrar, Faculty Room, Davis Hall.

A new student will receive from the Registrar a card entitling him to matriculate, when his admission credits are accepted. Students matriculate and pay their fees in the office of the Registrar, Davis Hall. If tuition fees are not paid on the second day of school the discount of $15 is not granted, making the tuition $175.00 for the year. After receiving a recepit for their fees, students are permitted to register for the various classes. Failure to pay fees or to register entails loss of credit through failure to appear on the class lists.

Grades of Scholarship

At the end of each semester the standing of a student in each of his courses is reported by the instructor to the Registrar and is entered on record. Semester records are not given to the students who are in arrears in their tuition fees.

Work reported as of Grade D must either be made good at the next following opportunity for re-examination, or must be taken again in the class room if credit is to be obtained. Work reported as of grade E, or in which two D's have been reported must be made up in class.

No credit will be given to students for section work unless taken according to schedule with section to which student is assigned.

Students' reports will bear the following grades: A—excellent; B—good; C—passable; D—repeat examination only; E—repeat entire course, class work and examinations.

All scheduled courses prescribed in this catalogue as necessary for the degree of Doctor of Medicine must be passed before graduation.

Any student who fails in ten semester hours of work in any one

year must repeat that year, including all work whether passed or not.

EXAMINATIONS

Regular examinations are held at the end of each semester. Second examinations are held in October, February and May. These are set for students who have been absent from regular examinations, or who have failed to receive a passing grade at a regular examination. Students delinquent in two or more branches, after the October examinations, are required to take those branches a second time and may not elect studies that conflict with them. Such students will be listed as unclassified. Any student who has received a D and who wishes to take a re-examination must receive permission from the Chairman of the Committee on Re-examinations.

REQUIREMENTS FOR GRADUATION

To obtain the degree of Doctor of Medicine, the candidate must be of good moral character and must maintain an irreproachable moral standing while at School; he must be at least twenty-one years of age; he must pay all fees in full; he must complete satisfactorily four full annual courses of lectures of eight months each, including all the topics listed as required; he must dissect the median half of the human body; he must be in attendance upon clinics for three years; he must secure satisfactory standing in all final examinations.

Honors and Prizes

A general honor, *Cum Laude,* is granted to students, elected by the Faculty because of uniformly good standing.

Special honors are awarded to students of uniformly good standing in required subjects and who do special work of an excellent character in any department.

The Edmund Andrews Prize—The class of 1884 will give a microscope to the student in this medical school who receives the highest mark in the examination for internes conducted by the Cook County Hospital.

RULES REGARDING GRADUATE STUDIES AND DEGREES IN THE COLLEGE OF LIBERAL ARTS

Candidates for the degree of Bachelor of Arts or Bachelor of Science are governed by the rules affecting such degrees as printed on page 173 of this catalogue. Candidates for the Master's

Degree are governed by the rules affecting such degrees as printed in this catalogue, pages 193 to 194, with the provision, however, that in addition to complying with these regulations he is directly subject to the direction of his work by the Committee on Graduate Study in the Medical School.

Training Schools for Nurses

Both Mercy Hospital and Wesley Hospital conduct a school for nurses, with curriculum under the general supervision of the Medical School. The laboratory instruction is provided by the School. A high school diploma is required for admission.

The courses for nurses are separate from those of the medical students, but the laboratories and the facilities of the Medical School are freely available. The practical work for nurses is given in the hospitals under the immediate charge of the teaching force of each hospital. The diplomas for nurses are granted at the University Commencement.

OFFICERS OF THE FACULTY FOR NURSES

The faculty of the School for Nurses includes many instructors connected with the hospitals and with the Medical School. The officers are as follows:

Professor Winfield Scott Hall..Junior Dean of Medical Faculty In Charge of Course of Study, Lecturer on Physiology and Dietetics.

Sister Mary Veronica..Principal of the Training School of Mercy Hospital and Superintendent of Nurses

Bertha L. Knapp, R.N.....Principal of the Wesley Hospital Training School

COURSES OF INSTRUCTION FOR NURSES

Elementary Anatomy—Twenty-four periods. Dr. Kurtz.
Elementary Chemistry—Twenty-four periods. Mr. Johnson.
Elementary Dietetics—Thirty-two periods. Professor Hall.
Elementary Bacteriology—Twenty-four periods. Dr. Glenn.

The Training School for Nurses of the Evanston Hospital is affiliated with Northwestern University and diplomas of graduation are awarded to nurses on the completion of their course of study by the Hospital Association and the University jointly. The course of study, the methods of instruction, and the requirements for gradua-

tion are determined by a joint committee and instruction is given in the laboratories of the College of Liberal Arts, and at the Evanston Hospital. The course of study is practically the same as that required at the training school of Mercy Hospital and of Wesley Hospital.

Information regarding the complete courses offered to Nurses in the affiliated Hospitals may be obtained by addressing the Principal of either the Mercy or Wesley Hospital Training School for Nurses, Chicago, Illinois, or the Superintendent of Evanston Hospital, Evanston, Illinois.

Further information regarding the Medical School may be obtained by addressing Northwestern University Medical School, 2431 *Dearborn Street, Chicago.*

The Law School

The Law School

THE LAW SCHOOL was founded in 1859 with a sum of money given by Thomas Hoyne, when there were only three similar schools west of the Allegheny Mountains. The first dean was Henry Booth, 1859-1891. For many years the School was under the joint control of the old University of Chicago and of Northwestern University, and was known as the Union College of Law. In 1891, the other University having long ceased to share in the management and being about to surrender its charter, Northwestern University assumed sole control, and the School has since borne the name of the University.

The course of study is arranged to give a knowledge of the law that will be indispensable to students wherever they may practice. Graduates of the School now practice in nearly forty States and Territories. Special courses are offered for acquiring a knowledge of the law of Illinois.

The Case-study system, or the study of the principles of law as demonstrated in judicial opinions, is followed; but each instructor employs it according to his own judgment, conducting the classes by lectures, discussions, recitations, written exercises, or in any way he deems best adapted to the subject. The extensive library of the School lends itself peculiarly to this modern and scientific method of instruction.

The School is located in the Northwestern University Building, at the corner of Lake and Dearborn Streets, Chicago, which was acquired and rebuilt in 1901-1902, at a cost of nearly one million dollars. It is situated near the center of the business district of Chicago and is of easy access from all residence portions of the city. The City, State, and Federal Courts are within a few blocks. The School occupies 24,000 square feet of space, divided into convenient lecture-rooms, assembly-rooms, study-rooms, professor's offices, court-room, and library. The arrangement of the rooms, opening on an inner court, ensures seclusion and quiet for study.

Abram Winegardner Harris, Sc.D., LL.D.
President

John Henry Wigmore, A.M., LL.B., LL.D.
Professor of Law; Dean

Frederic Beers Crossley, LL.B.
Secretary and Librarian

Charles Cheney Hyde, A.M., LL.B.
Professor of Law

Albert Martin Kales, A.B., LL.B.
Professor of Law

Charles George Little, A.B., LL.B.
Professor of Law

Henry Schofield, A.M., LL.B.
Professor of Law

Louis May Greeley, A.B., LL.M.
Professor of Law

George Purcell Costigan, Jr., A.M., LL.B.
Professor of Law

Edwin Roulette Keedy, A.B., LL.B.
Professor of Law

Levi Harper Fuller, B.S., LL.B.
Professor in the Law of Procedure

Mitchell Davis Follansbee, A.B., LL.B.
Professor in the Law of Procedure

Charles Byrd Elder, LL.B.
Instructor in the Law of Judgments and Extraordinary Legal Remedies

Henry Clay Hall, A.M., LL.B.
Instructor in the Law of Insurance

Charles Clarence Linthicum, LL.B.
Lecturer on Patent Law

William Henry Dyrenforth, LL.B.
Lecturer on Patent Law

Otto Raymond Barnett, LL.B.
Lecturer on Patent Law

Charles Ernest Pickard, A.B.
Lecturer on Trademark and Copyright

Charles Yoe Freeman, A.B., LL.B.
Lecturer on Corporation Practice

Alfred William Bays, A.B., LL.B.
Instructor in Moot Court; Lecturer on General Practice

Albert Kocourek, LL.B.
Lecturer on Jurisprudence

William Dunton Kerr, A.B., LL.B.
Lecturer on Public Service Corporations

Cecil Barnes, A.M., LL.B.
Lecturer on Illinois Law

David Owen Dunbar, A.B., B.S., LL.B.
Lecturer on Illinois Law

James Jackson Forstall, B.S., LL.B.
Lecturer on Illinois Law

William Browne Hale, A.B., LL.B.
Lecturer on Illinois Law

Elmer Martin Liessmann, LL.B.
Lecturer on Illinois Law

Rex Mackenzie, A.B., LL.B.
Lecturer on Illinois Law

Robert Wyness Millar, LL.B.
Lecturer on Illinois Law

Stanley Rich, B.S., LL.B.
Lecturer on Illinois Law

The first group includes those who have offices in the School building. The second group includes all other members who under the statutes of the University have seats in the Faculty as officers of government. In each group the names are given in the order of seniority of appointment.

Library Facilities

THE ELBERT H. GARY LIBRARY OF LAW

The library of some 40,000 volumes represents largely the gifts of the Honorable Elbert H. Gary, LL.B., 1867, of New York City, and is unusual in its scope. It contains duplicate sets of the United States Reports, the official Reports of all the States and Territories, the complete National Reporter System, partly in duplicate, the Lawyers Reports Annotated, all of the official Illinois Reports in duplicate, statutes of all the States in the Union, and a large col-

lection of digests, periodicals, encyclopedias and text-books. Of the English legal sources, it possesses the complete Statutes, and substantially all the regular Reports of England, Ireland, and Canada since the beginning of the Year Books, except those appearing in law journals. The extensive Library of the Chicago Law Institute, two blocks distant, exchanges the privileges of consultation for all books not in the Elbert H. Gary Library.

The Library receives official copies of all the briefs and records filed in cases before the Supreme Court of the United States. These copies are received at the Library for the cases decided at the end of each session of the Supreme Court, and may be consulted by members of the bar.

Besides the library of Modern Anglo-American law, there are the following special collections:

Modern Continental Law, numbering some 12,000 volumes on the law of the twenty-three European countries, as contained in statutes, decisions, journals, and treatises, is more comprehensive in scope than any other collection in the United States. As a source of investigation for Continental Law, it provides facilities not available elsewhere.

International Law, numbering nearly 3,000 volumes, includes a large quantity of printed material relating to American, British and Continental Diplomacy, not elsewhere available in the West.

Ancient, Oriental, Primitive and Mediaeval Law includes the Hindu, Mohammedan, Hebrew, Babylonian, Egyptian, Greek, Chinese, Japanese and sundry other systems, as well as the mediaeval European materials. It numbers 2,500 volumes, and offers unique facilities for research to students of comparative legal history.

Roman and Civil Law, numbering 2,500 volumes, including the library of the late Moritz Voigt, of Leipzig, Germany, contains many rare volumes not found in any other American Library.

Ecclesiastical Law numbering 200 volumes, contains a selection of the most useful texts, commentaries, and journals.

Jurisprudence and Philosophy of Law, numbering 700 volumes, includes all the important American, English, German, French, Italian and Latin texts on this subject.

Criminal Law and Criminology, numbering over 3,000 volumes, provides the most ample materials, from all countries, for research in this growing subject.

Anglo-American Legal History will include material relating to English Historical Legal Literature, complete sets of Colonial session laws (mostly reprints), revisions, contemporary and modern treatises on the laws of the colonies, and all other available material related to the history of the development of the common law in England and the United States. This collection now numbers about 2,500 volumes and contains many rare and valuable historical treatises.

Latin-American Laws will include collections of the laws of Mexico, the Central American, and the South American States, following the arrangement in the Gary Collections of Modern Continental Law; that is, a collection of the codes, ordinances, decisions of the Supreme Court, most important treatises, and leading law journals. Thus far the volumes installed number 1,500, and will be increased as rapidly as the material can be acquired.

Legal Bibliography, numbering some 500 volumes and pamphlets, covering all topics and countries, is the most extensive of the kind in this country.

Admission

The candidate for admission as a regular student must be at least eighteen years of age.

A graduate of a college, university, or technical school may be admitted without examination upon the presentation of his diploma.

The graduate of a high school or academy maintaining a four-year course of study of satisfactory grade may be admitted without examination upon the presentation of a satisfactory certificate from the proper school authority.

A candidate who has pursued a course of study equivalent to the four-year high school course may be admitted without examination upon the certificate of an authorized public officer, or of a proper officer of an institution of advanced learning.

All other applicants for admission must pass a satisfactory examination upon the subjects required for entrance to the College of Liberal Arts of this University.

Combined Courses in Six Years

A member of the third or fourth year class, in good standing in the College of Liberal Arts, may elect work in the course in Law which shall count toward his graduation in both the College of Liberal Arts and in the Law School, but the work elected cannot

exceed one year's work in the Law School. Each election is subject to the approval of both faculties. This provision enables a student to complete a course in the College of Liberal Arts and Law in six years.

Students transferring from other colleges to the Law School and presenting as much as 72 hours of college credit, including the prescribed studies for the degree of Bachelor of Arts or Science, may become eligible for that degree in this University by taking three courses under the Arts faculty amounting to 18 hours of credit. The choice of such courses shall be made under the direction of the Law faculty, subject to the condition that prescribed studies must be completed.

A member of the Law School not a candidate for an Arts or Science degree may pursue not more than one course at a time in the College of Liberal Arts during the period of his registration in the Law School without additional charge for tuition.

ADVANCED STANDING

The requirements for advanced standing are explained under the title Requirements for Degrees, page 278.

SPECIAL STUDENTS

Persons, not candidates for a degree, may pursue one or more courses as special students, provided they are qualified to pursue such courses to advantage. They will receive a certificate for all work done and may enter at any time as candidates for a degree, provided they were substantially qualified under the above requirements for admission as regular students at the time of first entering the School. No special student may take more than twenty-five semester hours of work in one year without special permission from the Dean.

TIME FOR ENTRANCE

Students are urged to enter at the beginning of the year. The disadvantages of late registration are embarrassing, especially to students who intend to practice law in Illinois.

Application for advanced standing must be made before November 1 in the year of entrance. Registration for the graduate or fourth year course must be made before October 1.

Pre-Legal Course in the College of Liberal Arts

A full four-year course in the college of Liberal Arts is recommended by the faculty of the Law School as preparatory to the

study of law. Those who are unable to do this are recommended to take one, two, or three years, as they may be able.

Students who expect to enter the Law School and desire to pursue studies in College solely in preparation for entrance to the Law School, may pursue them in the College of Liberal Arts of this University without conforming to the program prescribed in general for candidates for the degree of Bachelor of Arts or Sciences, or to that prescribed in particular for first-year students; but they are subject to the following conditions:

1. They must file with the College Registrar a certificate from the Dean or Secretary of the Law School that they are matriculated in the Law School for the pre-legal course, and are recommended by such officer to take courses in the College preparatory to entrance to the Law School.

2. They must be qualified to enter the College under some one of the usual requirements on page 98.

3. They must take any course needed to make up a deficiency in such requirement.

4. They may in the first year take only the elementary courses in any subject, unless so far as the College adviser in that subject certifies them to be qualified for advanced courses.

5. They may reckon the work done in College towards a degree of Bachelor of Arts or Sciences, but only so far as such work may coincide with the regular College program for such degrees.

6. Subject to the foregoing conditions, they may pursue one of the special programs set forth below:

Two kinds of programs are here given; one for students who enter to take one or two years of College courses, *not as candidates for a degree of Bachelor of Arts or Sciences,* but solely as a preparation for entering the Law School; the other for students who *are candidates* for a degree in the College of Liberal Arts, but expect afterwards to pursue a course in law. The latter program is so constructed as to fulfill the rules of the Liberal Arts Faculty of this University, requiring certain courses to be included by candidates for a degree in Arts or Sciences.

I. STUDENTS NOT CANDIDATES FOR A COLLEGE DEGREE

1. ONE-YEAR COURSE

Latin A; English Language A; Elocution A; History A, English; History H, American; Economics A.

2. TWO-YEAR COURSE

First year: Same as in 1.

Second year: Economics A or B1; Philosophy A1; History B or BC or H1; English Language B, or English Literature AA or AB; Elocution B.

II. STUDENTS WHO ARE CANDIDATES FOR A COLLEGE DEGREE

1. THREE-YEAR COURSE

First year: Mathematics A1; French, AA, AB, or A, or German A; Latin A; English Language A; History A.

Second year: Any one Science, Physics, Chemistry, Zoölogy, Botany, Geology, or Astronomy; English Literature AA or AB; English Language B; History H; Economics A.

Third Year: Elocution A; Economics B1, or B4; Philosophy A1; History B, BC, F, or H1; English Literature B, H, or I; or English Language I.

2. FOUR-YEAR COURSE

First year: Mathematics A1; French AA, AB, or A; Latin A; English Language A; History A.

Second year: Any one science, Physics, Chemistry, Zoölogy, Botany, Geology, or Astronomy; English Literature AA or AB; Latin B or D, or German or French; English Language B; History H or BC.

Third year: English Literature B, H, or I; English Language I; Economics A; Philosophy A1; Elocution A.

Fourth year: Economics B1, B2, B3, B4, B5, or B6, any 2 or 3; Philosophy A2 or B1, or Psychology 1; Elocution B; History B, BC, F, or HI, any 1 or 2.

Courses of Instruction

The courses of instruction offered make a total of 123 semester hours, and are carefully graded in three years. A regular student may take any course offered in the year to which he belongs, or any course not already taken in a preceding year; but he may not take, without special permission, a course assigned to a succeeding year, except Constitutional Law, Carriers, Code Pleading, Irrigation Law, Mining Law, and Patents of Invention, which may be taken

in the second year. Conveyancing and Property III are not open to students who have not previously taken Property I and II.

The courses in Illinois Law are supplementary to the main courses in the same subjects, and are designed to give scientific treatment of the peculiarities of Illinois law.

SCHEDULE OF HOURS

In general the schedule of hours is arranged as follows: First year courses, between two and five o'clock in the afternoon; second year courses, between nine and twelve in the morning; third year courses, between two and six o'clock in the afternoon. The Practice Court is held in the evening at half-past seven.

COURSES FOR THE DEGREE OF LL.B.

FIRST YEAR

First Semester

Introduction to the Study of Law—Private reading in Course A, Courses of Reading in Legal History, Biography, and Jurisprudence, as described on page 273. Written examinations, with a credit of one semester hour. Prescribed.

Contracts—Three hours. Williston's Cases on Contracts. Professor Costigan.

Torts—Three hours. Wigmore's Cases on Torts, Vol. I. Professor Wigmore.

Property I—One hour. Gray's Cases on Property, Vol. I. Personal Property. Professor Kales.

Crimes and Criminal Procedure—Three hours. Beale's Cases on Criminal Law; and selected Readings. Professor Keedy.

Forensics—One hour. Prescribed. Mr. Bays.

Second Semester

Contracts, continued—Three hours. Professor Costigan.

Torts, continued—Two hours. Wigmore's Cases on Torts, Vol. II. Professor Wigmore.

Property I, continued—Three hours; Gray's Cases on Property, Vols. I, II. Tenures and estates, fixtures, profits, easements, covenants, rents. Professor Kales.

Common Law Pleading and Procedure—Three hours. Whittier's Cases on Pleading. Professor Keedy.

Damages—One hour. Two hours a week, second half of semester, Beale's Cases on Damages. Professor Schofield.

Forensics, continued—One hour. Mr. Bays.

SECOND YEAR

First Semester

Forensics—Course II, Moot Court, as described on page 269. Oral and written work, once a week, with a credit of one semester hour. Prescribed. Mr. Bays.

Legal History and Biography—Prescribed and optional private reading; Courses B1, B2, B3, BA1, BA2, and BA3, as described on page 273. Written examinations, with a credit of one semester hour for each course.

Evidence—Two hours. Wigmore's Cases on Evidence. Professor Wigmore.

Quasi-Contracts—Two hours. Woodruff's Cases on Quasi-Contracts. Given in 1911-1912, and alternate years. Professor Costigan.

Agency, including Employer's Liability—Three hours. Wambaugh's Cases on Agency. Professor Keedy.

Commercial Paper—Three hours. Ames' Cases on Bills and Notes. Professor Greeley.

Equity Jurisdiction—Three hours. Ames' Cases on Equity Jurisdiction. Professor Schofield.

Property II—Two hours. Gray's Cases on Property, Vols. III, IV. Acquisition of real property inter vivos, including deeds and covenants, devolution of property at death, including descent, wills, and administration. Professor Kales.

Persons (Domestic Relations)—Two hours. Kales' Cases on Persons. Professor Kales. Omitted in 1911-1912.

Second Semester

Evidence, continued—Two hours. Professor Wigmore.

Property II, continued—Two hours. Professor Kales.

Equity Jurisdiction, continued—Three hours. Professor Schofield.

Sales of Personalty—Three hours. Williston's Cases on Sales. Professor ————.

Trusts—Three hours. Ames' Cases on Trusts. Professor Costigan.

Insurance, Fire and Life—Two hours. Wambaugh's Cases on Insurance. Mr. Hall.

Public Service Corporations—Railroad, Telegraph, Gas, Water, Warehouse, and similar Services. One hour. Beale's and Wyman's Cases on Public Service Corporations. Mr. Kerr. Omitted in 1911-1912.

Equity Pleading and Procedure—Two hours. Thompson's Cases on Equity Pleading, and practical exercises. Professor Keedy.

Forensics, continued—Moot Court, once a week. Mr. Bays.

THIRD YEAR

First Semester

General Jurisprudence and History of Law—Private reading: Courses C, 1, 2, 3, CA, as described on page 275. Written examinations, with a credit of one semester hour for each course. Prescribed.

Corporations—Two hours. Warren's Cases on Corporations. Professor Little.

International Law I—Two hours. Scott's Cases on International Law, and topics for research. In 1911-1912, four hours. Professor Hyde.

International Law II—American Treaties and Diplomacy; topics for research. Two hours. Omitted in 1911-1912. Professor Hyde.

Conflict of Laws—Three hours. Beale's Cases on Conflict of Laws. Professor Hyde.

Suretyship—Two hours. Ames' Cases on Suretyship. Professor Little.

Judgments, and Auxiliary Legal Remedies—Attachments, Garnishments, Execution, etc. One hour. Rood's Cases on Attachments and Judgments. Given in 1911-1912 and alternate years. Mr. Elder.

Constitutional Law—Three hours. Thayer's Cases on Constitutional Law. Professor Schofield.

Property III—Two hours. Gray's Cases on Property, Vols. V, VI. Conditional and future interests; restraints on alienation; fraudulent transfers; registration of deeds; conversion and election; joint ownership; courtesy and dower; homestead. Professor Kales.

Conveyancing—One hour. Drafting exercises, study of selected abstracts, and lectures on practice. Professor Greeley.

Practice Court—Two hours a week, at a single session. Causes prepared and conducted through all details of litigation, by students as attorneys and counselors, under the direction of a professor as judge. Professor Fuller.

**Patents of Invention I*—General Survey. Five Lectures. Professor Linthicum.

II—Patent Soliciting. Twenty lectures, with practical exercises.

III—Patent Law and Practice. Forty lectures.

Parts II and III will not be given, unless at least twenty special students apply for them before October 15.

Irrigation Law—One hour. Selected cases. Given in 1911-1912 and alternate years. Professor Costigan.

Mining Law—Two hours. Selected Cases. Given in 1912-1913 and alternate years. Professor Costigan.

Code Pleading and Procedure—Two hours. Hinton's Cases on Code Pleading. Given in 1912-1913 and alternate years. Professor Costigan.

Second Semester

Corporations, continued—Two hours. Professor Little.

Corporation Practice—One hour. Practical exercises in conducting corporate legal business and in drafting instruments. Mr. Freeman.

Constitutional Law, continued—Two hours. Professor Schofield.

* These three form a single course; the first part is open to all students; the second and third parts are open to students of the second and third years, and to special students, but cannot be taken separately. The number of lectures is equivalent to two hours a week through the year, and work in the course will therefore be credited as four semester hours.

Conveyancing, continued—One hour. Professor Greeley.

Property III, continued—Two hours. Professor Kales.

Analytical Jurisprudence—Two hours. Mr. Kocourek.

Mortgages—Two hours. Kirchwey's Cases on Mortgages. Professor Greeley.

Roman Law—Two hours. Omitted in 1911-1912.

Carriers—Three hours. Beale's Cases on Carriers. Professor Greeley.

Bankruptcy—Two hours. Williston's Cases on Bankruptcy. Professor Keedy.

Municipal Corporations—One hour. Smith's Cases on Municipal Corporations. Professor Schofield.

Partnership—Two hours. Ames' Cases on Partnership. Professor Little.

Extraordinary Legal Remedies, Mandamus, Quo Warranto, Habeas Corpus—One hour. Roberts' Cases on Extraordinary Legal Remedies. Given in 1912-1913, and alternate years. Mr. Elder.

Jurisdiction of Federal Courts—One hour. Professor Schofield.

Practical Problems in Contemporary Legislation—Studies, reports, and discussions. One hour. Professor Wigmore.

Original Research and Thesis—Credit not to exceed two semester hours may be given, as described on page 268.

COURSES IN ILLINOIS LAW

Procedure and Practice—Two hours. Professor Follansbee.

Contracts—One half hour. Mr. Mackenzie.

Corporations—One half hour. Mr. Hale.

Common Law Pleading—One half hour. Mr. Millar.

Equity—One half hour.

Property—One half hour. Mr. Barnes.

Property—One half hour. Mr. Rich.

Trusts—One half hour. Mr. Dunbar.

Torts—One half hour. Mr. Forstall.

GRADUATE OR FOURTH YEAR COURSES

A. LECTURE COURSES ANY THIRD YEAR COURSE NOT PREVIOUSLY TAKEN

B. READING COURSES

These courses consist in pursuing private reading, under the direction of a professor, and in preparing an essay or thesis. The credit given is stated on page 281, under Requirements for the degree of Juris Doctor.

History and Biography of the Bench and Bar—To include the reading of all the materials named in Courses B1, B2, BA1, BA2, under Courses of Reading in Legal History; essay on a selected topic.

History of the English Legal System—To include the reading of all the materials named in Course BA3, under Courses of Reading in Legal History; essay on a selected topic.

History of American Law—A study of the history of a subject in the law of one or more jurisdictions of the United States.

Analytical Jurisprudence—To include the reading of all the materials named in Course C1 (a), under Courses of Reading in Legal History; essay on a selected topic.

Primitive Law—To include the reading of all the materials named in Course C1 (b), under Courses of Reading in Legal History; essay on a selected topic.

History of Roman Law—A study in the history of a topic in Roman Law; this must be preceded by the lecture course in Roman Law, or its equivalent.

History of Germanic Law—To include the reading of all the materials named in Course CA, under Courses of Reading in Legal History; essay on a selected topic.

Modern Continental Law of Europe—A study of some subject of contemporary law in one or more European Continental countries.

Comparative Legislation—A study of some problem of modern legislation in two or more countries of Europe or America.

Comparative History of Legal Ideas—A study of the development of some legal idea or transaction in different independent systems, European and non-European.

Legal Bibliography—The preparation of a topical bibliography on a branch of the law named in these courses or on a substantial part of such a branch.

Ecclesiastical Law—A study of some topic of ecclesiastical law, European or American.

Constitutional and Administrative Law of Continental Europe—A comparative study of a constitutional or administrative principle in the countries of Continental Europe.

Legal Ethics—A study of a problem of legal ethics.

Principles of American Law—A study of a doctrine or rule of law in one or more jurisdictions of the United States.

Parliamentary Law—A study of a rule of parliamentary law or practice, as applied today in deliberative bodies.

COURSES NOT COUNTING FOR A DEGREE

Trade-Marks and Copyrights—Six lectures. Mr. Pickard.

General Review—Given twice, in September and June, prior to the State examination for admission to the Bar. Five hours a week for a month. Mr. Bays.

Legal Ethics—Five lectures. Professor Costigan.

Patents—Five lectures. Professor Linthicum.

TRAINING IN LEGAL WRITING, SPEAKING, AND PRACTICE

As a part of the systematic instruction in the body of the law, represented in the foregoing curriculum, an effort is made to provide adequate training in the practical use of legal knowledge and discipline, and in certain important details of legal writing and speaking which help materially to equip the accomplished lawyer. The various branches of work directed to this end are as follows:

Pleadings and Other Instruments—The courses on Common Law Pleading, Code Pleading, and Equity Pleading, in addition to the study of the legal sources, include exercises in the drafting of the various kinds of pleadings. In Corporations the class is formed during the second semester into two corporations, which organize, elect officers, issue stock, enlarge capital, keep books, consolidate, and do various other acts of corporate business calling for the drafting of instruments and in other ways familiarizing the student with the use of the legal knowledge acquired. In other courses, particularly

in Commercial Paper, Carriers, Insurance, attention is paid to the forms of instruments in common use.

Conveyancing—In the course on Conveyancing the chief material consists of a series of fifteen selected abstracts of title representing a great variety of documents and proceedings involving property rights. A copy of each abstract is purchased by each member of the class, and a detailed study of matters of form and substance is made from the conveyancer's point of view, and with regard to the laws of different states. Thorough work in this course ought to equip the student as a practical conveyancer at the time of his entering upon his profession. No one may take this course who has not taken the courses Property I and II.

Trial Practice—The courses on Procedure and Practice give a systematic and detailed survey of the rules of law. The course on Evidence includes an auxiliary drill in the use of the rules. The Practice Court gives the third year student opportunity to become practically familiar with these rules by the application of them in litigation managed by himself. The sessions of the Court are held weekly, on Thursday evenings, for two hours. During each session from one to three cases are tried, with and without a jury; and other cases are disposed of in various aspects. Between the sessions, causes are being prepared and advanced from stage to stage by the student-attorneys in charge. While the proceedings are dispatched at the hearings by the respective attorneys, all members of the class are required to attend, to make notes and to report on the work done. A faithful attention to this course ought to give the graduate experience in the use of legal knowledge that will materially assist him in starting in his profession. The systematic pursuit of such a course under an experienced instructor affords the student results more thorough, accurate, and extensive than can be obtained in the desultory service of a law office during a long period. A copy of the printed Rules of the Practice Court will be mailed upon request.

Theses—To encourage original research, the Faculty will grant credits, not to exceed two semester hours, to any member of the third-year class who shall present a satisfactory thesis upon some legal topic. The topic must be approved by a member of the Faculty before December 1 and the thesis must be presented on or before May 15 of the year in which the student expects to graduate; it must be printed or typewritten, and becomes the property of the School. The work should be begun not later than October.

Editorial Work—To edit and digest for the profession the opinion and record of a decided case is of great value in cultivating the skill required in preparing briefs and analyzing precedents. Each year not more than seven second and third-year men of known ability are appointed Associate Editors of the *Illinois Law Review,* to digest manuscript decisions of the Appellate Court.

Moot Courts—A moot court is held in the second year once a week from November 1 to May 1. The class is divided into two sections A and B, meeting on alternate weeks. The work consists of the preparation and delivery of arguments and opinions of law on statements of facts assigned beforehand, and is in charge of the Instructor in Forensics, with the assistance of the other members of the Faculty.

No student is recommended for a degree, except by unanimous vote of the Faculty, who has not satisfactorily done the work of this course; but students entering the third-year class from another school may by vote of the Faculty be excused from this course. *Credit, one semester hour.*

Public Debate—Students selected in April at the preliminary contest to compete in the second preliminary for the Towle Prizes for Public Speaking and taking part therein, receive one semester hour of credit. Students who have not taken Forensics, or the equivalent in another school, are not eligible.

Legal Advice Clubs—Third year students may form Legal Advice Clubs, by voluntary selection on or before October 10, supplemented by assignments to vacancies by the Secretary of the School. Each club contains not less than four nor more than six members, and elects a Secretary. Difficult cases arising in actual practice, sent in for advice by alumni or other practitioners, are submitted to the Clubs in rotation as the cases come in. A written opinion, citing authorities, is handed to the professor specially in charge. A credit of *one semester hour* may be allowed each member of a club.

Legal Aid Society—After October 1 not more than ten students are assigned as assistants in the Chicago Legal Aid Society, University Branch, for practical office and trial work. No student having grade C in more than one course is eligible for assignment. The hours of work are determined by agreement with the Superintendent of the Society. In 1910-1911 each student attorney gave one or two half-days a week to the work of this Society.

Summer Courses

A course of summer work is provided, open to *those who have studied law for one or two years* in this or another law school.

The courses are reading courses. No lectures are given. The student reads assigned books. Credit is obtained by passing an examination, or by presenting a report or essay, at the opening of the fall term in October. The amount of credit obtainable is stated in term hours after each course. A maximum of 15 term hours is here provided for.

The courses are selected from those named in the regular curriculum. For details as to books to be read, see the description of courses there given. In any course the books specified may be changed, by written consent of the instructor, filed with the Secretary. When no books are specified, the student must obtain a list from the instructor, a copy to be filed with the Secretary.

The School Library is open for study during the summer, and all necessary books may be there consulted. The instructors will advise with the student at any time on application.

COURSES OF STUDY

1. Legal Biography and History, Course B. 1 hour.
2. Legal Biography and History, Course BA. 1 hour
3. History of the English Legal System, Course BB. 1 hour.
4. Analytical Jurisprudence, Course C1. 1 hour.
5. Historical Jurisprudence, Course C. 1 hour.
6. International Law, Course C2. 1 hour.
7. Roman Law, Course C3. 1 hour.
8. Practical Problems in Contemporary Legislation. 1 hour.
9. Criminology, and Philosophy of Penal Law. 1 hour.
10. History of American Law. 1 hour.
11. Primitive Law. 1 hour.
12. Modern Continental Law. 1 hour.
13. Legal Bibliography. 1 hour.
14. Comparative Legislation. 1 hour.
15. Legal Ethics. 1 hour.
16. Parliamentary Law. 1 hour.

Of the above courses, only Nos. 1, 2, 3, 5, 6, 7, 9, 11 may be taken by *those who have studied law for one year only*. In Nos. 8, 10, 13, 14, 15, the credit is obtainable by preparing a written report or essay, instead of passing an examination.

Registration for summer courses must be made between June 1 and June 30. *Examinations* will be given in October, on dates specially set.

The summer courses are recommended to ambitious and industrious students, who may not be obliged to occupy themselves at other work, for three main reasons:

1. They put the student more at liberty to take, during the regular school year, a larger number of those courses which can best be pursued only in the class room under the lectures of an instructor, and which might otherwise have to be omitted for lack of time.

2. They enlarge his learning as a lawyer in a number of subjects which, though commonly not termed "practical," are becoming more and more necessary for the lawyer who expects to take part in the progressive movements of the day and the constructive legislation of the future.

3. They furnish him with the groundwork for continuing his personal studies on broader lines after graduation, and for avoiding that degeneration into a mere mechanical practitioner which in after years is for lawyers a most serious danger in both its civic and its personal aspects.

The summer courses are not recommended merely as a method of shortening the *time* required for graduation or for admission to the bar, first, because to shorten that time is inadvisable, both for the individual and for the profession; next, because the rules of the Illinois State Board of Bar Examiners require in any case three full years of study; and, further, because the rules of the Association of American Law Schools require three full years of study.

But the credits obtained may be reckoned on the *number of credits* sufficient for graduation in this School, subject to all other rules on that subject.

Courses of Reading in Legal History, Legal Biography, Jurisprudence, and General Legal Literature

OBJECTS OF THESE COURSES

There are two chief benefits to be obtained from the work in these courses of reading. (1) They help to expand the lawyer's view in all legal matters, by giving him an acquaintance with the best traditions of a great profession and the examples of his predecessors, and a familiarity with the lawyer's science in its broadest relations. (2)

They help to reach the final stage of independent legal thinking, by cultivating the habit and skill of mastering the materials without the artificial stimulus of a daily task under the instructor's oversight. The student is therefore recommended to cast off frankly the spirit of merely seeking credit for a measured task. These courses have to be measured in units for school purposes; but he is urged not to confine himself to the minimum amounts of reading in each prescribed subject, but to range through the material and to read as much as he can in those selected subjects which most interest him. At the same time he is expected not to let the freedom of range of choice injure habits of accuracy, and is therefore held responsible for a thorough acquaintance with the works presented for examination.

REGULATIONS FOR THE COURSES

1. For graduation, a credit of not less than Grade C, averaged for all five courses, must have been obtained in Course A, Courses B, 1, 2, and 3, and Course C, 1 or 2 or 3 or 4.

2. A credit of *one term hour* will be given on passing the examination in each one of the above prescribed courses of reading, as well as in the optional Courses BA1, BA2 and BA3. A student may cumulate these credits by passing in any courses, in addition to the required minimum of five courses prescribed under Rule 1 above.

3. An examination will be held at the beginning of the first term of the year and at the end of the first term, in all of the courses; but notice must be filed in the Secretary's office, at least two days before the announced date of examination, by each student intending to take it.

Students are urged to do the required reading *during the summer vacation.*

A student failing at any examination may take the next regular examination if he has reviewed the work.

A student may take any of these examinations at any time after entering the School, no matter to what class he belongs.

4. A student entering with advanced standing need not take Course A.

5. A student who has already obtained credit at a college or law school for work equivalent to Courses C, 1, 2, 3, or 4, will be given credit for that course as required in this School; but may also obtain credit by doing the work of any remaining Courses not taken elsewhere.

6. No lectures are given in any of these Courses, except C, 1, 2, and 3, the lecture courses of Jurisprudence, Roman Law, and

International Law; the work is done by private study. But the courses are under the general supervision of the Dean, who will give any desired advice on the subjects of study.

7. The credit in any of the courses C will count as one of the required ten term-hours of the Third Year.

8. Students are recommended to own the books named if they can afford to purchase them, but the Library will provide a sufficient number of copies for use.

OUTLINE OF COURSES OF READING

Course A. First Year. Prescribed. *Introduction to the Study of the Law. All* of the following materials:

(a) Blackstone's Commentaries, any edition; Introduction, Sections 1-4; Book I, Chapters 1, 2, 5, 9, 11, 12; Book II, Chapters 4-6; Book III, Chapters 3-9, 12, 13, 17-27; Book IV, Chapters 19-25, 27-29, 32, 33.

(b) Woodruff's Introduction to the Study of Law.

(c) Wambaugh's Study of Cases, Part 1 only.

Course B1. Second Year. Prescribed. *History of the English Bench and Bar.* Campbell's Lives of the Chancellors (later editions), Vols. VIII-X, Erskine to Brougham, inclusive; (excepting cc. 181, 186, 189, 194, 199, 201, 203, 205, 209, 228, 229); Campbell's Lives of the Chief Justices, Vol. III, cc. 30-40 (Mansfield); and the two essays of Zane and Veeder, Nos. 19 and 20, in Select Essays on Anglo-American History, Vol. I, edited for the Association of American Law Schools, 1907.

Course B2. Second Year. Prescribed. *History of the American Bench and Bar.* Select Essays in Anglo-American Legal History, No. 21 (Kent's Autobiography); and any eight of the lives in Lewis' Great American Lawyers, Vols. I-VIII.

Course B3. Second or Third Year. Prescribed. *General Legal Literature.* Any four volumes in the following list, but at least two separate works must be included. Other works not here named, may by special consent be substituted: Demosthenes, by Bredif, transl. MacMahon (1885). Orations of Demosthenes, ed. C. R. Kennedy, 5 vols., Bohn ed., 1873; also 2 vols., 1871. The Attic Orators, from Antihpon to Isaeos, ed. R. C. Jebb. London, 1876. Hortensius, or the Office and Duties of an Advocate, by Wm. Forsyth, 3d ed., London, 1879. Law and Lawyers in Literature, by Irving Browne, Boston, 1882. A Book About Lawyers, by J. C. Jeaffreson, 2 vols., London, 1867. Cicero's Orations, Bohn ed.,

transl., or Yonge's Select Orations. A History of Crime in England, by L. O. Pike, 2 vols., London, 1876. Law and Politics in the Middle Ages, by Edward Jenks, New York, 1898. The Spirit of the Laws, by C. Montesquieu, transl. Nugent, 2 vols., Cincinnati, 1873, Worcester, 1900. Dialogue on the Laws, by Plato, transl. Jowett, Vol. IV of his works, New York, 1883. J. P. Curran's Speeches, ed. Whittier, 1877. The Common Law, by Oliver Wendell Holmes, Jr., Boston, 1881. Laws and Jurisprudence of England and America, by John F. Dillon, 2 vols., Boston, 1894. Sir Edward Coke, Prefaces and Epilogues to the Reports and the Institutes. Hints on Advocacy, by R. Harris, 9th ed., St. Louis, 1892. Studies in History and Jurisprudence, by James Bryce, New York, 1901. Institutes of Legal Oratory, by M. F. Quintilian, transl. J. S. Watson, 2 vols., Bohn ed., London, 1876. Legal Masterpieces of Eminent Lawyers, by Van Vechten Veeder, St. Paul, 1903, 2 vols. Maxims of the Law, by Sir Francis Bacon, Works, ed., Spedding, vol. XIV. De Daudibus Legum Angliae, by Sir John Fortescue, transl. Gregor, Cincinnati, 1874. The Law in Shakespeare, by Cushman K. Davis, St. Paul, 1884. Civil Liberty and Self Government, by Francis Lieber (ed. Woolsey, 3d ed., Philadelphia, 1874). Sources of English Law (four essays by Brunner, Veeder, Maitland, Holdsworth, in Select Essays on Anglo-American Legal History, 1908, Vol. II., Nos. 22-25). The Conduct of a Law suit, by John Reed, Boston, 1882. Sources of American Colonial Legal History, (essays by Reinsch, Sioussat, and Andrews, in Select Essays on Anglo-American Legal History, 1907, Vol. I, Nos. 11, 12). Curiosities of Law and Lawyers, by Croake James, London, 1891. Superstition and Force, being essays on Wager of Law, Wager of Battle, Ordeal, and Torture, by Henry C. Lea, 4th ed., Philadelphia, 1892. Speeches of Lord Erskine, ed. J. L. High, 3 vols., Chicago, 1876. Law and Lawyers in Dickens, Scott, etc., by John Marshall Gest, Philadelphia, 1906-1910. Legal Speeches and Essays of Lord Brougham, in his works, Edinburgh, 1873. Shakespeare as a Lawyer, by F. F. Heard, Boston, 1883. Commentaries on the Law in Shakespeare, by Edw. J. White, St. Louis, 1911.

Course BA1. Second Year. Optional. *History of the English Bench and Bar.* (a) Campbell's Lives of the Chancellors, Vols. VI, VII (Hardwicke to Loughborough, inclusive); excepting cc. 132, 133, 134, 146, 147, 149, 150, 151; and (b) Campbell's Lives of the Chief Justices, Vols. III, IV. (Holt to Tenterden, inclusive;) or any one of the following English biographies; Arnould's Life of Denman; Hardcastle's Life (Autobiography) of Campbell; Atlay's Victorian Chancellors.

Course BA2. Second Year. Optional. *History of the American Bench and Bar.* Any five of the following works: Life and Letters of Joseph Story; Harvey's Reminiscences, or Lodge's Life of Daniel Webster; Brown's Life, or Neilson's Memoirs, of Rufus Choate; Memoirs and Letters of James Kent; Memoirs of Sargent S. Prentiss; Magruder's Life of John Marshall; Caton's Bench and Bar of Illinois; Carson's History of the Federal Supreme Court; or any four volumes of Lewis' Great American Lawyers.

Course BA3. Second or Third Year. Optional. *Anglo-American Legal History.* (a) Pollock and Maitland's History of the English Law, Vols. I, II; or Holdsworth's History of English Law, Vols. I, II, III; and (b) one of the following works: Holmes' The Common Law; Stephen's History of the Criminal Law, or (c) Select Essays on Anglo-American Legal History, Vols. I, II, III.

Course C. Third Year. Prescribed. Any one of the following three subjects. *Jurisprudence, International Law, Roman Law.*

Course C1. *Jurisprudence*—One work under each of the following heads:

a. Analytical Jurisprudence—Salmond's Jurisprudence, Holland's Jurisprudence, Austin's Jurisprudence, Terry's Principles of Anglo-American Law, Korkunov's Theory of Law (Hastings' translation), Gareis' Science of Law (Kocourek's translation).

b. Legal Philosophy—Amos' Science of Law; Sidgwick's Elements of Politics; Spencer's Justice, Miraglia's Comparative Legal Philosophy (Lisle's translation); Berolzheimer's World's Legal Philosophies (Jastrow's translation); Kohler's Philosophy of Law (Albrecht's translation).

c. Comparative Historical Jurisprudence—Maine's Ancient Law; Jenks' Laws and Politics in the Middle Ages; Bryce's Studies in History and Jurisprudence; Essays on Mediaeval Law by Maitland, Jenks, and Pollock, in Select Essays on Anglo-American Legal History, Vols. I, Nos. 1-3; or, instead of *a, b, and c,* the lecture course in Jurisprudence.

Course C2. *International Law*—Any one of the following works: Hall Lawrence, Walker, Westlake, Wilson, Wheaton, Woolsey; or the lecture course in International Law.

Course C3. *Roman Law*—Any one of the following works: Salkowski's Institutes of Roman Private Law (Whitfield's transla-

tion); Sohm's Institutes of the Roman Law, Ledlie's translation; Moyle's Justinian; Poste's Gaius; Muirhead's Private Law of Rome; or, the lecture course in Roman Law.

Course CA. Third Year. Optional. *Continental Legal History*—Any two of the following topics, taking one work in each: *General*—Goldschmidt's Handelsrechtsgeschichte; General Survey of Continental Legal History (in Continental Legal History Series, edited for the Association of American Law Schools). *France*—Brissaud's History of French Private Law (Howell's translation); Viollet's Historie du droit civil francais; Esmein's Cours elementaire d'histoire du droit francais. *Germany*—Huebner's Grundzuege des deutschen Privatrechts (Philbrick's translation); Heusler's Institutionendes deutschen Privatrechts; Brunner's Deutsche Rechtsgeschichte.

The Illinois Law Review

The sixth volume of the *Illinois Law Review* began with the number for May, 1911. Subscriptions, $3.00 per year, should be mailed to the Business Manager, *Illinois Law Review,* Northwestern University Building, Chicago, Ill.

This periodical is published monthly, except during the months of July, August, and September, by the Faculty, alumni, and students of the Law School. The aim of the publishers is to provide a legal journal of interest and value to lawyers throughout the United States. Each number contains leading articles of general interest, book reviews, and a digest of the latest decisions of the Illinois Appellate Court, made from the records.

Prizes, Honors and Scholarship

Monitorships—Fifteen students are appointed annually as assistant librarians and monitors. These receive one hundred and fifty dollars each in compensation for their services. Applications for appointments should be addressed to the secretary of the School.

The Rufus H. Sage Scholarship in the School of Law—From the income of a bequest in the will of the late Mrs. Ellen Sage, a scholarship yielding an annual income of $150 has been established and will be awarded annually. An additional bequest from the same estate provides for scholarships in the College of Liberal Arts and in the Medical School.

The Blackstone Prizes—Two prizes of $100 and $50, to be known as the Blackstone Prizes, will be awarded for the best and second

best examinations passed on the courses of reading in Legal History, Biography, and General Literature, viz.: B1, History of the English Bench and Bar; B2, History of the American Bench and Bar; B3, General Legal Literature; BA1, History of the English Bench and Bar; BA2, History of the American Bench and Bar; BA3, Anglo-American Legal History; C1, Jurisprudence; on the following terms: 1. The examination will be in writing; part 1 to consist of twenty questions propounded on the day of the examination; part 2 to consist of three essays or reports, not to exceed 2,000 words each. 2. The examination will take place in the first week in March; the essays will be handed in on January 10. 3. Candidates for a degree, who are in the third-year class, and have been regular students in this School for at least three terms, are eligible. 4. The topics for the questions will be selected from the works enumerated under the above ten courses of reading. The topics for the essays will be selected by the competitors, each for himself. Notice of topics selected to be filed with the Secretary not later than November 1, before the date of the examintion. 5. The award will be announced on May 1.

The Towle Prizes—A first prize of $100, and a second prize of $50, the gift of Henry Sargent Towle, Esquire, Chairman of the Law School Committee of the Board of Trustees, will be awarded to the students who shall, in public competition, be adjudged most proficient in debate.

The Follansbee Prize—A prize of $50, the gift of Mitchell Davis Follansbee, Esq., will be awarded to the writer of the best thesis on some subject relating to Legal Ethics.

The Hyde Prize—The interest on a fund of $700, the gift of Charles Cheney Hyde, Esq., is awarded not oftener than once in two years to the writer of the best thesis on some subject relating to International Law.

The MacChesney Prizes—As a first prize, a framed etched or engraved portrait of one of the American or English jurists named on page 274, selected by the prize-winner; and as a second prize, the complete works of one of the American or English legal authors named on page 274, selected by the prize-winner, the gift of Nathan William MacChesney, Esq., will be awarded to those members of the second or third year classes who shall submit before June 1 the best essay on some topic connected with the subjects of Courses b, ba, bb, and c, in the Courses of Reading on Legal History, Biography, and Jurisprudence. The prizes will be awarded by a committee con-

sisting of the Dean of the School, the Editor-in-Chief of the *Illinois Law Review,* and a third person to be selected by them. The successful papers will be published in the *Illinois Law Review.*

The Kocourek Prize—A Prize of $50, the gift of Albert Kocourek, Esq., will be awarded to the writer of the best thesis, in a competition among three or more students, on some juristic subject. In lieu of a thesis there may be presented a translation into English of not less than five thousand words on some phase of a juristic subject not already translated into English.

The Pound Prize—A prize of $25, the gift of Roscoe Pound, Esq., will be awarded the student of the graduating class who has the best record in scholarship for the entire course.

The Callaghan Prize—A prize of $50 in books, to be selected from the publications of Messrs. Callaghan & Co., is awarded for the best record in scholarship for the entire course.

The Charles G. Little Prize—A prize of $25, the gift of Charles G. Little, Esq., will be awarded the student of the graduating class who has the second best record in scholarship for the entire course.

The Order of the Coif—A scholarship organization instituted in 1907. Its purpose is the encouragement of scholarship and the advancement of ethical standards in the legal profession. The membership consists of seven regular students in each class of the Law School who receive the highest grades in scholarship, four of whom are elected and installed in the month of May of the second school year of the class, and the other three in the month of October of the third year of the class.

The Gage Prize in Debate—Students of the Law School may compete for the Gage Prize, as described on page 177.

Oratorical Contest of the Northern Oratorical League—Students of the Law School who have completed not more than four years of undergraduate study are eligible to compete for appointment as representatives of the University in the contests of the Northern Oratorical League. For further information see page 186.

Requirements for Degrees

All degrees are conferred at the University Commencement. Candidates for degrees are required to present themselves in person. The Oxford cap and gown are worn as the official dress.

BACHELOR OF LAWS

The degree of Bachelor of Laws is conferred upon students who are recommended therefor by the Faculty of the School. Such students will be recommended as in the judgment of the Faculty are of fit character and have complied with the following requirements.

Length of Attendance—Regular attendance for three years is required of all students, with the following exceptions: (1) students having credit for one year in law, either from a college or a law school in good standing may obtain a degree in two years; (2) students having completed satisfactorily two years in a law school in good standing may obtain a degree in one year; (3) students having completed satisfactorily one year in a law school of good standing, and having credit for one year in law from a college in good standing may become candidates for a degree in one year, by special permission of the Dean.

Applications for advanced standing must be presented before November 1 of the year of entrance.

Candidates for a degree must register for courses amounting to at least ten hours a week for each year.

Courses of Study—Candidates for a degree must obtain credit in courses amounting to sixty-six semester hours (sixty-eight, after 1912-1913), including at least ten hours of credit obtained in each semester of the third year.

Persons who have satisfactorily completed a two-year course of study in a law school in good standing may be given credit for this work, but in no case to exceed one-half of the amount above required.

Persons who have satisfactorily completed less than two years study of law in a college or law school in good standing may be given credit for this work to an amount to be determined in each case by the Dean. The subjects on which this credit is applied will be determined by the Secretary at the time of admission.

Grades of Scholarship—Four grades are given: A, excellent; B, satisfactory; C, unsatisfactory; D, failure. A candidate may offer for a degree courses with grade C for only one-sixth the amount of credits required to be obtained by him in this School, except that he may also offer courses with grade C to the extent to which he has other courses with grade A.

Specific Courses Required—In reckoning the sixty-six semester hours above mentioned, no specific courses need be included, except as follows: (1) The candidate must obtain an average grade of not

less than C in the prescribed courses of Reading in Legal History, Biography, and Jurisprudence, namely, A, B1, B2, B3, and either C1, C2, C3, or C4. A student entering with advanced standing may be excused from Course A; and a student who, in a college or law school, has already obtained credit for work equivalent to Course C1, C2, C3, or C4, may be excused from Course C. (2) The two-year course in Forensic Writing and Speaking must be completed.

A student entering with advanced standing who has not taken equivalent work elsewhere is subject to the remaining requirements applicable to the class he enters, except that a candidate for a degree in one year may be exempted from specified parts of the work, or may be required to take the second year work.

Promotions—1. A regular student of the first year class, not at the time a candidate for the degree of A.B. or B.S. in the College of Liberal Arts, who obtains less than sixteen hours of credit in this year, is permitted to enter the second-year class, as candidte for a degree in two additional years, only on condition that he obtain no mark lower than B in the examinations at the end of the first semester of the second year and obtain by the end of that year a total of forty hours of credit.

2. A regular student of the second-year class who obtains less than forty hours of credit in all the work of the first two years will be permitted to enter the third-year class, as candidate for a degree in one more year, on condition only that he obtain by the end of the first term of that year a total of fifty-two hours of credit.

3. In estimating the above credits, the usual rule for counting marks of A and C shall apply.

4. When in any case the conditions above mentioned are not fulfilled, the student may continue in the School as a candidate for a degree in not less than four years from the time of beginning.

5. The foregoing rules shall be applied by the Dean and the Secretary, and each case of such conditional admission shall be reported to the Faculty. But in any case, on petition, the Faculty, by vote, may authorize an exception from the rule or may allow the continuance in regular standing of a student who has not fulfilled a condition imposed under these rules.

MASTER OF LAWS

A candidate for the degree of Master of Laws will be required to meet the following conditions: (1) He will have obtained the degree of Bachelor of Laws in this University, or in some university or college having equal requirements. (2) He will complete, in addition, one year of residence in this School, during which time credit must

be obtained in not less than fifteen semester hours in second or third-year courses not previously counted toward the Bachelor's degree. (3) He will complete an exhaustive study of some topic of local law, pass an examination thereon, and present a paper embodying the results, of such character as to be suitable for publication in the *Illinois Law Review.*

JURIS DOCTOR

The candidate for the degree of Juris Doctor will be required to meet the following conditions: (1) He will present a diploma of the degree of A.B., or of an equivalent degree, from the College of Liberal Arts of this University, or other college in which the requirements are substantially equivalent; or a certificate showing the completion of at least two years' work in such a college, including at least one course in Latin, French and German; (2) He will have obtained the degree of Bachelor of Laws in this University, or in one whose requirements are substantially equivalent; (3) He will obtain credit in the courses of the fourth or graduate year to the amount of twenty semester hours, of which not more than ten are to be obtained in the lecture courses and not less than ten in the reading courses; but in the reading courses the work done in any of the courses may be given a credit not to exceed five hours, or in any two or any three of the courses a credit not to exceed seven hours, provided two members of the Faculty so certify.

Candidates will register on or before the first Monday in October of the year of candidacy; they will pay half the fees of a special student for the lecture courses, the library fee of alumni, and a diploma fee of twenty dollars.

MASTER OF ARTS OR OF SCIENCE

The Master's degree in Arts or Science will be conferred under the following conditions:

A graduate of the College of Liberal Arts of this University, or other college maintaining equivalent requirements for the Bachelor's degree in Arts or Science, may obtain the Master's degree, at the same time with the degree of Bachelor of Laws by pursuing, with the sanction of the Faculty of Liberal Arts, advanced work in subjects approved by that Faculty, and obtaining credit to the amount of twelve semester hours; and by presenting a thesis on an approved topic. The courses of study may deal in part or entirely with legal subjects; but courses of legal study, in order to count for the degree, must be of an advanced nature, must not otherwise be counted for the degree of Bachelor of Laws, and must be pursued under the

direction of a member of the Faculty of the Law School. If the candidate is obtaining his Bachelor's degree after only six years of University work, the additional credits required for obtaining the Master's degree must amount to thirty semester hours.

Students in law, intending to become candidates for the Master's degree, will register for the same degree in both the College of Liberal Arts and the Law School on or before the first Monday in October of the year in which they expect to graduate, and will pay the diploma fee of ten dollars. The Master's degree is open, upon the same terms, to graduates of the Law School who register before the October next following the completion of their professional course.

The following subjects have been approved by the Faculty of the College of Liberal Arts as counting for the Master's degree; Constitutional Law, Conflict of Laws, International Law, Administrative Law, Roman Law, Legal History, Contemporary Legislation, Analytic Jurisprudence, Historical Jurisprudence. Legal Philosophy.

Fees and Expenses

Matriculation fee, paid at first registration in the University.. $5.00
Tuition Fee, for regular students, a year.....150.00
Payable $50 October 1, $50 January 10, and $50 March 31.
A rebate of $5.00 is allowed if the entire fee is paid October 1.

Special Course Fees.
Special students, for each hour of class work, a semester.... 8.00
Candidates for the degree of Juris Doctor, for each hour of class work a semester..... 3.00
Library fee for the same students, a year..... 1.00
Course in Patent Law 25.00
General Review Course, for members or graduates of the School 15.00
For others 20.00
Diploma Fee, for the degree of Bachelor of Laws..... 10.00
For the degree of Juris Doctor..... 20.00

For further information relating to the Law School, address the Secretary of the Law School, Northwestern University Building, Lake and Dearborn Streets, Chicago, Illinois.

The College of Engineering

The College of Engineering

SEVERAL years ago, in response to an insistent demand, Northwestern University introduced in the College of Liberal Arts courses in engineering subjects. These courses were together equivalent to two years of technical work. The graduate of the College who completed them was prepared to earn the degree of an engineering school in two years.

A gift for the erection of an engineering building at Evanston and for its endowment led the Trustees of the University to take action in June, 1907, resulting in the establishment of a College of Engineering. This gift came from Mrs. Gustavus F. Swift and her son, Mr. Edward F. Swift. The building was completed in the winter of 1908-1909.

Recitations are given in the other buildings also on the campus. These include Fayerweather Hall of Science, University Hall, Fisk Hall, Old College, and the Orrington Lunt Library. A description of these buildings, the gymnasium, the dormitories, Music Hall, Annie May Swift Hall of Oratory, and Dearborn Observatory, in all of which the College of Engineering shares, may be found on pages 67 to 69.

Northwestern University was built up on the model of the eastern college and has maintained this character throughout its history. It has broadened its courses, and has liberalized its rules, but it continues to cultivate the humanities with jealous care. In keeping with these ideals, the course in Engineering introduces an unusual number of those non-technical studies that serve to develop general education and to cultivate the thinking power of the student. Unusual stress is laid upon mathematics, physics, and other sciences fundamental to engineering; to shop work and to practical work is given as much attention as is consistent with the purpose of this School. This plan has been adopted because there appears to be increasing need for instruction of this character. On the other hand, there are already many well equipped schools of engineering giving primary attention to practical training as opposed to this more general training; there is little need for a new school of the old kind. It is the belief of the University that such a plan will result in the preparation of engineers of the highest type.

Abram Winegardner Harris, Sc.D., LL.D.
President

John Fillmore Hayford, C.E.
Director

Olin Hanson Basquin, Ph.D.
Professor of Applied Mechanics

John Fillmore Hayford, C.E.
Professor of Civil Engineering

William Charles Bauer, B.S., Sc.D.
Professor of Electrical Engineering

William Henry Burger, B.S.
Assistant Professor of Civil Engineering

Milby Roy Hammer, B.S.
Assistant Professor of Drawing

James Taft Hatfield, Ph.D.
Professor of German Language and Literature

Henry Crew, Ph.D.
Professor of Physics

*J. Scott Clark, A.M., Litt.D.
Professor of English Language

Edouard Paul Baillot, L.H.D.
Professor of Romance Languages

Ulysses Sherman Grant, Ph.D.
Professor of Geology

Arthur Charles Lewis Brown, Ph.D.
Professor of English Literature

Willard Eugene Hotchkiss, Ph.D.
Professor of Economics

David Raymond Curtiss, Ph.D.
Professor of Mathematics

Walter Lichtenstein, Ph.D.
Librarian

Robert Richardson Tatnall, Ph.D.
Associate Professor of Physics

Murray Arnold Hines, Ph.D.
Assistant Professor of Chemistry

*Deceased December 28, 1911.

Clarence Stephen Marsh, A.B.
Registrar

Mabel Harriet Siller, B.L.
Assistant Registrar

Andrews Allen, C.E.
Lecturer on Contracts and Specifications

Elmer Martin Liessmann, LL.B.
Lecturer on Contracts and Specifications

George Ernest Stanford
Shop Assistant

Requirements for Admission

The requirements for admission to the College of Engineering are identical with those of the College of Liberal Arts, published on pages 98 to 106. Particular attention should be paid to preparation in mathematics and English composition. The requirements for graduation in the College of Engineering are most easily met if the student presents for admission two units of French and two units of German as his requirements in foreign language.

Each student in engineering who has not presented solid geometry for entrance will be required to take the subject, three hours for one semester, in the first year. As this will be an extra task, making it difficult for the student to keep up with his class, each candidate is advised to present this subject for entrance if possible.

Admission to the College of Engineering may be by certificate or by examination. Candidates for admission must be at least sixteen years of age. Graduates of accredited academies or high schools should obtain certificates of work done, showing the ground covered and the grade received in each study. These certificates should be sent to the Director, College of Engineering, at least one week before the opening of the fall semester. It is advisable to send them in much earlier. Certificate blanks may be had on request. Candidates who cannot present such certificates may be admitted on examination. Examinations for this purpose will be held September 23, 1912. The Board of Examiners will accept, in lieu of its examinations, those conducted by the College Entrance Examination Board. This Board holds examinations in June in the Northwestern University Building in Chicago, and at various other places in the United States.

Admission to Advanced Standing

Students from other colleges will be given advanced credit for work done, under the same conditions as those stated on page 106 for the College of Liberal Arts.

Courses of Study

The College of Engineering offers two courses of study, each five years in length, one in Mechanical and Electrical Engineering and the other in Civil Engineering. These courses are alike in character and the same in content to the end of the third year.

For the satisfactory completion of either course a degree in engineering will be conferred by the College of Engineering. For the satisfactory completion of the first four years of either course the degree of Bachelor of Science will be given by the College of Liberal Arts.

COURSE IN MECHANICAL AND ELECTRICAL ENGINEERING

Unless otherwise indicated, each course continues through the year, with the same number of hours in the second semester as in the first.

First Year	Semester hours
English Language A	3
French A*	3
Physics A	4
Algebra, Trigonometry and Analytical Geometry, Mathematics A 3	5
Mechanical Drawing, Engineering A1, to be taken as a two-hour course, either in the first or the second semester	2
Shop Work, Engineering A2, to be taken as a two-hour course, either in the second semester or the first semester	2
Second Year	
German A	3
Principles of Mechanics, Physics B1	3
Differential and Integral Calculus, Mathematics B1	3
Chemistry A	4

*If the student has offered for entrance two units of French and two of German, he is advised to take French A in the first year and German A in the second year, but the order may be reversed, if necessary. If other language units than those named in the preceding sentence have been offered for entrance, the student is required to take such language courses in the first and second years as will satisfy the language requirement for the degree of Bachelor of Science. These are not necessarily the courses French A and German A.

Surveying, Engineering B2 3
Shop Work, Engineering B1 1

Third Year

Elements of Economics, Economics A 3
Electricity and Magnetism, Physics C 3
Qualitative Analysis, Organic Chemistry, Chemistry B 4
Geology A1 4
Descriptive Geometry, Kinematics and Graphical Statics, Engineering C1 3

Fourth Year

English Literature AA or AB 2
Elective 3
Structural Mechanics, Engineering D3 3
Advanced Calculus, Mathematics C1 3
Metallurgy, Geology B5, a two-hour course in the first semester only 2
Contracts and Specifications, Engineering D1, a two-hour course in the second semester only 2
Journal Meeting, Engineering D2 1
Electrical Engineering, Engineering D6 3

Fifth Year—First Semester

Elective* 2
Thermodynamics, Engineering E1 4
Engines, Engineering E3 3
Hydraulic Engineering, Engineering E4 3
Advanced Electrical Engineering, Engineering E5 3
Thesis, Engineering E7 2

Fifth Year—Second Semester

Elective* 2
The Public Relations of Engineers, Engineering E2 (not offered in 1911-1912) 2
Engines, Engineering E3 3
Hydraulic Engineering, Engineering E4 3
Electrical Power Plant Engineering, Engineering E6 3
Thesis, Engineering E7 4

The course contains thirty-four semester hours in each year, exclusive of summer work.

During each of the three summers following the first, third and fourth years the student will be required to do practical work for

*This elective to be approved by the Director and to be taken in the College of Liberal Arts.

at least six weeks, of such a character as to furnish experience of value to him as a prospective engineer. The credit assigned to six weeks of such approved work is two semester hours.

During the summer following the second year the student is required to do field work in surveying for six weeks immediately following Commencement, (Engineering B3), the credit being six semester hours.

COURSE IN CIVIL ENGINEERING

The first three years of this course are the same as those in the course in Mechanical and Electrical Engineering shown above.

Fourth Year	Semester hours
English Literature AA or AB	2
Structural Mechanics, Engineering D3	3
Advanced Calculus, Mathematics C1	3
Elective in Geology	3
Metallurgy, Geology B5, a two-hour course in the first semester only	2
Contracts and Specifications, Engineering D1, a two-hour course in the second semester only	2
Journal Meeting, Engineering D2	1
Electrical Machinery, Engineering D5, a three-hour course in the first semester only	3
Heat Engines, Engineering D4, a three-hour course in the second semester only	3
Fifth Year—First Semester	
Elective*	3
Bridges, Engineering E8 (not offered in 1911-1912)	5
Railway Engineering, Engineering E10 (not offered in 1911-1912)	4
Hydraulic Engineering, Engineering E4	3
Thesis, Engineering E7	2
Fifth Year—Second Semester	
Elective*	3
Structures, Engineering E9 (not offered in 1911-1912)	5
The Public Relations of Engineers, Engineering E2 (not offered in 1911-1912)	2
Hydraulic Engineering, Engineering E4	3
Thesis, Engineering E7	4

*This elective is to be approved by the Director and to be taken in the College of Liberal Arts.

The course contains thirty-four semester hours in each year, exclusive of summer work.

During each of the three summers following the first, third and fourth years the student will be required to do practical work for at least six weeks, of such a character as to furnish experience of value to him as a prospective engineer. The credit assigned to six weeks of such approved work is two semester hours.

During the summer following the second year the student is required to do field work in surveying for six weeks immediately following Commencement, (Engineering B3), the credit being six semester hours.

LECTURES

Special lectures upon subjects of interest to engineers and engineering students are provided. Some of the lectures given in 1910-1911 are listed on page 85.

General Statements

REGISTRATION

For general regulations and for regulations affecting registration, see page 178. The schedule of study in the College of Engineering requires registration of seventeen hours a week, during five years, and approved summer work for six weeks in each of four summers.

DEGREES

The work of the first four years in the schedule of the College of Engineering includes the requirements for the degree of Bachelor of Science which is given upon the satisfactory completion of the fourth year. At the close of either required five year course in Engineering a professional degree in Engineering will be granted—for one course, the degree "Electrical Engineer" and for the other, the degree "Civil Engineer."

SCHOLARSHIPS

The Swift Scholarship—This scholarship is offered by Mrs. Gustavus F. Swift for men of the upper classes in the College of Engineering for the years 1911-1912 and 1912-1913. It affords an income of one hundred dollars a year.

For information regarding other scholarships open to Engineering students see page 174. In 1911-1912 three First Year scholarships

and three Upper Class scholarships were granted in the College of Engineering.

ATHLETICS

Students in the College of Engineering share all athletic privileges with the students in the College of Liberal Arts.

ROOM AND BOARD

Students of the University find suitable rooms for residence in private homes near the University campus. Board may be obtained in private families, in student clubs, and at restaurants. A considerable proportion of the students are members of fraternities, each chapter of which rents or owns a house for its exclusive use.

SELF SUPPORT

Evanston offers many opportunities for young men to obtain employment of various kinds. Persons desiring such employment will do well to communicate with the Secretary of the College Young Men's Christian Association.

FEES AND EXPENSES

Matriculation Fee, paid on first registration	$ 5.00
Tuition Fee, a year	100.00
Payable one-half at the beginning of the first semester, one-half at the beginning of the second.	
Laboratory Fees:	
Course A1, a semester	6.00
Course A2, a semester	8.00
Courses C1, D4, D5, D6, E4, E5, and E6, each course, a semester	3.00
Course B1, a semester	4.00
Courses B2 and D3, each course, a semester	5.00
Fee for summer course in surveying, B3	15.00
Diploma Fee	10.00

Reduced rates of tuition are given to sons of ministers ($30.00 a semester) and to holders of old-time perpetual or transferable scholarships for incidentals ($22.00 a semester).

The remaining necessary expenses of a student, namely, board, room, laundry, text-books and stationery, for nine months, vary from $200 to $370, the average being about $270.

Inquiries for further information in regard to the College of Engineering may be addressed to the Director of the College of Engineering, Northwestern University, Evanston, Illinois.

The School of Pharmacy

The School of Pharmacy

THIS school, incorporated in 1886 as the Illinois College of Pharmacy became a department of the University the same year. In 1891 the name was changed to the School of Pharmacy of Northwestern University. It is a member of the American Conference of Pharmaceutical Faculties and its graduates are recognized in all states in which graduation from a school of pharmacy is necessary to obtain license to practice.

The School's work is carried on in the University Building, Lake and Dearborn Streets, Chicago. The rooms occupied include six large laboratories, two lecture rooms, a balance room, library, museum, and two rooms for students. The laboratories are: the laboratory for inorganic chemistry, with accommodations for three classes of seventy students each; the laboratory for botany, microscopy, and pharmacognosy, with accommodations for six sections of forty-eight students each; the manufacturing laboratory, with accommodations for four sections of seventy students each; the laboratory for organic chemistry, with accommodations for four sections of twenty-eight students each; and the dispensing laboratory, with accommodations for three sections of thirty-six students each. Courses in bacteriology are given in the bacteriological laboratory on the fifth floor.

All the courses of instruction in the School are given exclusively to students of pharmacy and are adapted to their special needs. Especial attention is given to laboratory practice in the manufacture, testing, and valuation of preparations and in the work of dispensing.

Applications made to this school for alumni to fill desirable positions have, for many years, exceeded the supply. Undergraduate students are also in demand, being wanted for part-time service in Chicago drug stores while pursuing their courses of study.

The occupations open to graduates of efficient pharmaceutical schools include not only the customary practice of modern technical pharmacy, but similar employment in the service of the national, state, and municipal governments.

The course for the degree of Pharmaceutical Chemist comprises preparation of the most thorough kind, both for the practice of pharmacy and for the expert services required of inspectors of food and drugs under the laws, and for similar service in manufacturing and wholesale establishments.

Abram Winegardner Harris, Sc.D., LL.D.
President

Oscar Oldberg, Pharm.D., LL.D.
Dean Emeritus

Charles Waggener Patterson, Sc.B., Ph.C.
Acting Dean

William Edward Quine, M.D., LL.D.
Emeritus Professor of Physiology, Therapeutics and Toxicology

Harry Mann Gordin, Ph.D.
Professor of Chemistry and Director of the Chemical Laboratories

Gerhard H. Jensen, Ph.D.
Professor of Botany and Pharmacognosy

Maurice Ashbel Miner, Pharm.M.
Professor of Pharmacy and Director of the Pharmaceutical Laboratories

Charles Waggener Patterson, Sc.B., Ph.C.
Assistant Professor of Analytical Pharmaceutical Chemistry

Harry Kahn, Pharm.M., M.D.
Assistant Professor of Physiology and Materia Medica

Eugene Shaw Willard, D.D.S.
Assistant Professor of Bacteriology

George Daniel Oglesby, Ph.G.
Lecturer in Pharmacy

John Ferdinand Fischnar, Ph.C.
Instructor in the Dispensing Laboratory

James Lewis Clay, Ph.C.
Instructor in the Chemical Laboratories

Jay Kaplan, Ph.C.
Assistant in Chemistry

Edward Park, Ph.G.
Assistant in the Chemical Laboratories

Clifford Paul Hoaglund, Ph.G.
Assistant in the Manufacturing Laboratory

Admission and Instruction

Candidates for the degree of Graduate in Pharmacy must present evidence of having satisfactorily completed one full year of work in a properly accredited high school, or its equivalent, and must be at least seventeen years of age.

Candidates for the degree of Pharmaceutical Chemist must have completed two years' work in a high school of accepted grade or must possess an equivalent general education.

Candidates for the degree of Bachelor of Science in Pharmacy must fulfill the requirements for admission to the College of Liberal Arts.

Candidates for the degree of Master of Pharmacy must fulfill the requirements for admission to the College of Liberal Arts.

Special students not candidates for graduation may be admitted by action of the Faculty.

CREDITS FOR WORK DONE IN OTHER SCHOOLS

Students who have satisfactorily completed the first year's work in any approved college or school of pharmacy, upon presentation of proper evidence thereof, are admitted to the second year class, provided the work done in each subject is fully equivalent to that of the first year's program of this School and provided that their work conforms to the rule that related subjects must be studied in logical sequence.

Credit is given, subject to the same conditions, for any courses in individual subjects satisfactorily completed elsewhere, so far as these subjects are included in the required studies of this School.

Courses of Study for the Degree of Graduate in Pharmacy

First Year

A. DEPARTMENT OF PHARMACY

PROFESSOR MINER, ASSISTANT PROFESSOR PATTERSON, MR. OGLESBY, AND MR. FISCHNAR

A1. *Introductory* lectures defining pharmacy and stating its functions and problems. *The Pharmacopoeia*—Its objects, scope and construction. *Elementary Materia Pharmaceutica*—Preparatory discussion of the various classes of materials employed in the preparation of medicines. "Crude drugs," organic and inorganic. Character and mixed composition of plant drugs. Pharmaceutical properties of their constituents, such as cellulose, starch, mucilage, pectin, sugar, albumen, fixed oils and fats, tannin, bitters, volatile oils and related substances, resinous matters, glucosides and other neutral principles, and alkaloids. *Pharmaceutical Nomenclature*—Systematic and non-systematic names of drugs, chemicals and preparations. Value of latin-

ized or latinic technical titles and their non-latinic equivalents. Principles of construction. Pronunciation and proper abbreviations. One hour a week. Mr. Oglesby.

A2. *Galenical Pharmaceutical Preparations*—General description of the several classes of pharmaceutical products. Stock preparations and extempore preparations. Species, powders, confections, troches, masses, pills. Cataplasms, ointments, cerates, plasters, suppositories. Liquid mixtures, including emulsions. Solutions, waters, mucilages, syrups, glycerites. Alcoholic solutions. Infusions, decoctions, tinctures, wines, vinegars, fluid extracts and other liquid extracts. Solid extracts, oleoresins and precipitated resins. Other preparations. One hour a week. Mr. Oglesby.

A3. *General Pharmaceutical Processes and Manipulations Whereby Medicinal Preparations are Made.* Heat and its practical applications in pharmaceutical operations. Heating apparatus and appliances. Mechanical division of drugs; cutting, crushing, grinding, contusion, trituration, sifting. Fineness of powders. Solution, filtration, evaporation, crystallization, precipitation. Sublimation and distillation. Maceration, digestion and percolation. Other methods. Apparatus used. One hour a week. Mr. Fischnar.

A4. *Weights and Measures and Pharmaceutical Problems*—Mass, volume and density. Principles of metrology. The Metric System. Commercial and medicinal weights and measures of America and of Great Britain. Balances and weights. Volume measures. Specific density and specific volume. Instruments and methods employed in the determination of specific gravity. Instruction and practice in the solution of the every-day mathematical problems of pharmacy. These problems include weights and measures, doses, proportion, percentage, dilution and fortification and other examples in the computation and adjustment of strength of drugs and preparations, specific gravity and specific volume. Two hours a week. Assistant Professor Patterson.

A5. *Pharmaceutical Laboratory Practice*—Work designed to familiarize the student with apparatus, processes and materials, and to apply the lessons taught in the didactic courses. This course in pharmaceutical and chemical operations includes the manufacture of a great variety of finished preparations. The work is done in the General Pharmaceutical or Manufacturing Laboratory and constitutes the first part of the practical training in operative pharmacy. The students are permitted to take away with them at the end of the year the preparations they make. Two periods a week of three hours each. Professor Miner.

B. DEPARTMENT OF CHEMISTRY

PROFESSOR GORDIN AND MR. CLAY

B1. *General and Inorganic Chemistry,* theoretical and descriptive. The principles of the science. The chemical elements and their more important compounds. A course designed to lay the foundation necessary to the successful pursuit of the further work in this department. Three hours a week. Professor Gordin.

B2. *Experimental Study* of the physical and chemical properties of the elements of greatest importance in the elucidation of chemical phenomena and the products of chemical action.

B3. *Qualitative Analysis*—Practical study of the methods of separation and identification of the principal bases and acids and of the reactions involved therein.

Analysis of inorganic substances and mixtures, the composition of which is unknown to the student.

Study of the reagents and methods employed in the application of the identity and purity tests of the Pharmacopœia.

B2 and B3. *Laboratory Work*—Three laboratory periods of three hours each and one recitation hour each week. Professor Gordin and Mr. Clay.

C. DEPARTMENT OF PHARMACEUTICAL BOTANY, MICROSCOPY AND PHARMACOGNOSY

PROFESSOR JENSEN

C1. *Pharmaceutical Botany*—The organs, tissues and microscopical structure of plants and plant drugs. Cell contents and their recognition. The optical properties of mirrors and lenses and the mechanism and manipulation of the microscope.

Two laboratory periods of two hours each and one lecture hour each week. Professor Jensen.

This course constitutes the necessary preparation for the practical study of vegetable drugs.

D. HUMAN ANATOMY AND PHYSIOLOGY

ASSISTANT PROFESSOR KAHN

D1. A course designed to give the student such a knowledge of the human body and its organs and functions as will enable him to understand in a general way the processes of nutrition, circulation, respiration, and the mode of action of drugs. One hour a week. Assistant Professor Kahn.

Second Year

A. DEPARTMENT OF THEORY AND PRACTICE OF PHARMACY

PROFESSOR MINER, ASSISTANT PROFESSOR PATTERSON, MR. OGLESBY, AND MR. FISCHNAR

A6. *The Individual Galenical Preparations of Organic Drugs*—Their pharmacy and its relation to their chemical constituents. The important preparations of the Pharmacopœia and the National Formulary are fully discussed in this course. One hour a week. Assistant Professor Patterson.

A7. *The Inorganic Chemical Preparations*—Applied inorganic pharmaceutical chemistry. General principles governing the manufacture of chemicals, especially such as may be successfully and profitably made by practicing pharmacists without any other apparatus than that which is necessarily included in the outfit of every properly equipped pharmacy. The organic pharmaceutical chemicals and their pharmacy. One hour a week. Professor Miner.

A8. *Extempore Operative Pharmacy—Extempore Preparations* of the pharmacopœias and formularies. How they are made.

Physicians' prescriptions and their construction and interpretation. The dispensing department and the art of dispensing. General and special rules. Incompatibilities.

The text used consists of a collection of thousands of formulas and prescriptions, exceptional as well as typical, showing the greatest variety of construction, phases of manipulation, ingredients, and difficulties requiring special treatment. These examples in extempore operative pharmacy have been compiled expressly for the purpose of placing before the students a more extensive and instructive variety of problems than will be found in the prescription files during many years of active work in the busiest of representative drug stores. The collection is in book form, so that teacher and students can analyze and discuss the examples together in order to cultivate and test the student's ability to decide upon the best way to meet each problem, and to detect errors and incompatibilities.

A9. *The Duties and Responsibilities of Pharmacists and Their Agents.* Pharmacy laws. The relation of pharmacists to the medical profession and to the public. Pharmaceutical ethics.

A8 and A9. One hour a week. Mr. Oglesby.

A10. *Senior Laboratory Course* in the manufacture of pharmaceutical preparations, galenical and chemical, organic and inorganic, official and unofficial.

The extraction and purification of important natural constituents of plant drugs.

Each student makes a large variety of finished products, including important and commonly used preparations of the Pharmacopœia and the National Formulary, especially those which can and should be made by the practicing pharmacist.

Special care is taken to prepare the student to do successfully and well the work which pharmacists are now called upon to do as the result of the active propaganda in favor of the use of U. S. P. and N. F. preparations in preference to proprietary products. Among the inorganic chemical preparations made are mercury compounds, bismuth compounds, granular effervescent salts, and many iron compounds including scale-salts. Among the organic substances made are aloin, salicin, amygdalin, piperin, salicylic acid, oil of cloves and natural benzoic acid. Each student is permitted to keep samples of the preparations he makes.

Hundreds of products made by the students are shown in special exhibits at the school.

Thirty-six laboratory periods of three hours each. Professor Miner.

A11. *Laboratory Course in Dispensing*—The lessons are systematically prepared or selected with the view to include all important phases of work at the dispensing table with all kinds of materials and by all the different methods practiced. A practical experimental study of incompatibilities is included in this course. Fifty laboratory periods of two hours each. Mr. Fischnar.

A12. *Pharmaceutical Chemical Problems*—Exercises in writing equations and in solving problems relating to applied pharmaceutical chemistry. One hour each week. Assistant Professor Patterson.

B. DEPARTMENT OF CHEMISTRY

PROFESSOR GORDIN, ASSISTANT PROFESSOR PATTERSON, AND MR. CLAY

B4. *Organic Chemistry*—The principles of the chemistry of the combustible carbon compounds. Their structure, classification and methods of production. Organic substances important to pharmacy, including the so-called "synthetics," are given special attention.

This course fits the student to pursue intelligently the courses in organic pharmaceutical testing, drug assaying, the production of organic chemical preparations and other practical laboratory work, and to understand fully the text of the pharmacopœia descriptive of the organic chemicals, alkaloids, volatile oils, etc. Three hours a week. Professor Gordin.

B5. *Volumetric Analysis and Pharmaceutical Testing*—Principles and methods. Practice in the preparation and use of standard volumetric test solutions. Alkalimetry and acidimetry and other volumetric analytical processes. Indicators and their uses.

Practice in the application of the purity tests prescribed in the Pharmacopœia, and in the volumetric quantitative examination of important chemical preparations by the official methods; also the determination of alcohol in tinctures, fluid extracts and other alcoholic liquids.

The assaying and standardization of opium and its preparations is introduced at the end of this course.

Thirty-six laboratory periods of three hours each. Assistant Professor Patterson.

C. DEPARTMENT OF BOTANY, MICROSCOPY AND PHARMACOGNOSY

PROFESSOR JENSEN

C2. *Pharmacognosy*—Study of the organic crude drugs. The most important drugs are thoroughly studied with the aid of the microscope. This course is designed to develop a capacity to interpret and apply the pharmacopœial descriptions for the identification of individual drugs and to form a correct judgment of their quality.

Good specimens of about two hundred of the most important plant drugs are furnished to each student for this work.

Two laboratory periods a week of two hours each. Professor Jensen.

E. MATERIA MEDICA AND THERAPEUTICS

ASSISTANT PROFESSOR KAHN

E1. *Materia Medica and Therapeutics*—The properties, action, uses and doses of drugs and medicines, including so much of therapeutics and toxicology as is indispensable to the intelligent and safe practice of pharmacy. Instruction is also given in relation to "first aid to the injured" and other emergency aid which pharmacists may properly render. Two hours a week. Assistant Professor Kahn.

Courses for the Degree of Pharmaceutical Chemist

All the courses for the degree of Graduate in Pharmacy as described in the foregoing pages constitute parts of the curriculum for the degree of Pharmaceutical Chemist. In addition, the following courses are required.

First Year

B. DEPARTMENT OF CHEMISTRY

PROFESSOR GORDIN, ASSISTANT PROFESSOR PATTERSON, AND MR. CLAY

B6. *Gravimetric Analysis*—Fundamental operations characteristic of general methods and special processes employed in the gravimetric determination of inorganic substances, including advanced modern methods and the application of this work to pharmaceutical and commercial requirements.

Forty-five laboratory periods of three hours each, supplemented by one weekly recitation. Professor Gordin and Mr. Clay.

Pharmaceutical Testing (Course B5), as described among the second year courses in chemistry for the degree of Graduate in Pharmacy, is taken by students registered in the course for the degree of Pharmaceutical Chemist in the latter part of the first year. Thirty-six laboratory periods of three hours each.

Second Year

A. DEPARTMENT OF PHARMACY

PROFESSOR MINER

A13. *Organic Chemical Preparations*—The production of organic chemical compounds of pharmaceutical importance or illustrating general methods. Among the substances made by the students are ether, chloroform, iodoform, several organic acids, halogen derivatives of hydrocarbons, nitro benzene, aniline, urea, acetanilide, dithymol diiodide, artificial oil of wintergreen, ethyl nitrite, ethyl acetate and various other esters.

Twenty-eight laboratory periods of three hours each. Professor Miner.

B. DEPARTMENT OF CHEMISTRY

PROFESSOR GORDIN AND ASSISTANT PROFESSOR PATTERSON

B7. *Important Chemical Constitutents of Plant Drugs,* such as alkaloids and glucosides, and upon certain important practical applications of *Chemical Physics,* including the use of the polariscope and other instruments in chemical work.

Twenty lectures. Professor Gordin.

B8. *Urine Analysis,* qualitative and quantitative. The detection or determination of constituents of urine which are of importance in the diagnosis of disease.

Twenty-four laboratory periods of three hours each. Assistant Professor Patterson.

B9. *Advanced Course in Pharmaceutical Testing and Drug Assaying*—A study of the principles and methods employed in the assay of drugs and preparations containing alkaloids, illustrated by laboratory practice in the assays of cinchona, extract of nux vomica, belladonna, aconite, guarana, etc. The examination of volatile oils, including the determination of important constituents, such as phenols, aldehydes, alcohols and esters. Practice in the determination of melting points and boiling points. Other quantitative determinations, such as the assay of spirit of nitrous ether and phenol. The valuation of pepsin, pancreatin and diastase preparations.

Forty laboratory periods of three hours each. Assistant Professor Patterson.

B10. *Food and Sanitary Analysis*—The examination of water to determine its potableness and fitness for household use. The examination of milk, butter, baking powders and food products generally. This course includes laboratory practice in the determination of nitrogen by the Kjeldahl method and its modifications, the determination of the iodine absorption value, saponification value, etc. The detection of food preservatives, such as boric acid and borax, sodium benzoate and formaldehyde. Practice in the methods employed for determining specific gravity.

Physical examinations requiring the use of the polariscope, Zeiss Butyrorefractometer and Babcock milk tester are made.

Forty laboratory periods of three hours each. Assistant Professor Patterson.

C. DEPARTMENT OF BOTANY, MICROSCOPY AND PHARMACOGNOSY

PROFESSOR JENSEN

C3. *Commercial Microscopy*—A course designed to train the student for the duties of the pharmaceutical chemist and public microscopist in the examination of powdered drugs, spices and food products. Comparisons of pure and adulterated products.

The course includes work with the camera lucida and polariscope. Twenty-one laboratory periods of two hours each. Professor Jensen.

ELECTIVE

H. DEPARTMENT OF BACTERIOLOGY

ASSISTANT PROFESSOR WILLARD

H1. *Bacteriology*—Bacteria in health and disease. Preparation of culture media culture methods and methods of staining. The work usually required for sanitary purposes.

Thirty-nine laboratory periods of three hours each. Assistant Professor Willard.

Program of Special Course for Food and Drugs Chemists and Inspectors

This program occupies six months, from September to April. It is open to graduates who have had the necessary preliminary courses in chemistry and other branches, embracing not less than twelve hundred hours' instruction and practical work in pharmacy, chemistry and materia medica.

The courses included in the program, subject to such modifications as may be called for by the students' preliminary work, are: A13, B6, B7, B9, B10 and C3, together with either B8 or Course H.

SPECIAL COURSES

Unclassified students are admitted, by action of the Faculty, to any of the individual courses included in the program of work required for a degree, to advanced courses, and to any additional special courses which the School is prepared to offer. The fees for such elective courses are in proportion to their extent, and full credit is given in the form of certificates for work satisfactorily completed.

Degrees

The requirements for graduation include regular attendance, for at least one year in this School, the satisfactory completion of the prescribed program of work, good moral character and satisfactory deportment, and the settlement of all accounts.

Degrees are conferred at the Graduating Exercises held at the conclusion of the Graduate in Pharmacy course in April and at the general University Commencement in June. On these occasions all candidates for degrees are required to be present in person, the Oxford cap and gown being worn as the official dress.

The degrees conferred are those of Graduate in Pharmacy, Phar-

maceutical Chemist, Bachelor of Science in Pharmacy, and Master of Pharmacy.

DEGREE OF GRADUATE IN PHARMACY

The course for this degree occupies two school years of six months each, during which the student devotes his whole time to his studies and laboratory work.

The same course occupies two years of nine months each when the student engages in concurrent drug-store employment and when he, accordingly, carries only two-thirds of the weekly program of studies pursued by students who give their whole time to school work.

DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

This degree requires four years, two years of study in the College of Liberal Arts and two years in the School of Pharmacy.

DEGREE OF MASTER OF PHARMACY

This degree is conferred upon completion of three years of study in the College of Liberal Arts and two years in the School of Pharmacy.

DEGREE OF PHARMACEUTICAL CHEMIST

This course extends through two years of nine months each, with the student's whole time occupied with his studies and laboratory work. The three years' course for the same degree occupies the student's whole time through three school years of six months each. The program of work is the same as in the two years' course.

POST-GRADUATE COURSE

A post-graduate course is offered to Graduates in Pharmacy of other schools who have had sufficient preparation to undertake the completion of the prescribed curriculum for the degree of Pharmaceutical Chemist in one additional year. In this course the program of work is modified in each case so as to enable the student to take all the work which he has not already had.

General Statements

THE LIBRARY

The School possesses a valuable pharmaceutical reference library. It now contains 2,950 bound volumes and pamphlets. All the principal current chemical and pharmaceutical journals, foreign and

American, are received, and are accessible alike to instructors and students.

THE GENERAL PHARMACEUTICAL OR MANUFACTURING LABORATORY

This laboratory occupies a room about 60 by 40 feet, which is lighted by twelve large windows. It has individual accommodations for 288 students, the classes being arranged in four sections.

Students taking the course for the degree of Graduate in Pharmacy receive 260 hours' instruction in this laboratory and make from 150 to 200 preparations. Candidates for the degree of Pharmaceutical Chemist have, in addition, 84 hours' work in the production of organic chemical compounds.

THE GENERAL CHEMICAL LABORATORY

This room has a floor space of 1,800 square feet and individual accommodations for 216 students in three sections. It is well lighted, and good ventilation is maintained by means of an eight foot electric fan. Each student receives in this laboratory 200 hours' instruction during the first six months, and those taking the course for the degree of Pharmaceutical Chemist have 135 hours' additional practice.

THE DISPENSING LABORATORY

This laboratory is a room with a floor area of 1,450 square feet, with accommodations for over a hundred students divided into sections. From twenty to thirty students are assigned to each section.

The School of Pharmacy of Northwestern University was the first to introduce laboratory courses of instruction in the art of dispensing. Twenty-five years' practical experience has demonstrated the value of this course. Systematic training and a sufficient variety of technical work at the dispensing table can no longer be found in the retail drug store. A special dispensing laboratory is, therefore, at this time one of the most important features of the equipment of an efficient training school for pharmacists.

The dispensing laboratory of this School is equipped with an outfit of implements and apparatus many times as extensive as can be found in any drug store. Each student is taught how to use these tools in a workmanlike fashion.

Powders, pills, troches, capsules, tablet triturates, compressed tablets, ointments, plasters, suppositories and a great variety of liquid mixtures, including emulsions, are prepared under the direction of an experienced practical pharmacist.

THE LABORATORY FOR ANALYTICAL PHARMACEUTICAL CHEMISTRY AND FOOD AND SANITARY ANALYSIS

This laboratory has individual work tables for sections of twenty-eight students at a time. These tables are unusually spacious, and additional work space is provided upon other large tables. Hoods and drying ovens, together with all the modern special apparatus and instruments requisite to thorough teaching, are included in the equipment of this laboratory as in the equipment of the other laboratories. Platinum dishes and crucibles and other platinum ware are supplied in ample quantity, and only the best porcelain and glassware is used.

The weighing room, situated between the chemical laboratories, is well equipped with good analytical balances.

Students taking the course for the degree of Graduate in Pharmacy have thirty-six lessons of three hours each in this laboratory. Students taking the course for the degree of Pharmaceutical Chemist have 240 hours' additional work.

THE LABORATORY FOR PHARMACEUTICAL BOTANY, MICROSCOPY AND PHARMACOGNOSY

The floor area of this laboratory is 1,224 square feet. It is a long room, with all the work tables placed against the eight large windows on one side of the room. The light is of the kind most suitable for microscopical work.

THE MUSEUM AND EXHIBITS

The museum contains more than two thousand specimens of drugs, chemicals, pharmaceutical preparations, and other substances of medicinal or industrial importance, pharmaceutical and chemical apparatus and implements, and other articles of interest to students.

Authentic specimens of distinct varieties of plant drugs, many of great value or of special interest, are contained in these collections, including not only exceptionally fine drugs, but also spurious ones. All plant drugs used to a sufficient extent to be found in the drug markets are represented by good specimens in the museum.

The exhibits of chemical products, inorganic and organic, are exceptionally large, and the exhibits of pharmaceutical products and sick-room supplies are instructive.

Specimens of numerous kinds of chemicals and preparations manufactured by the students attest the practical character of the laboratory training given in the School.

FEES AND EXPENSES

Matriculation Fee, paid on first admission to the School, not returnable	$ 5.00
Tuition Fees, payable half yearly in advance	
For the course leading to the degree of Graduate in Pharmacy, a year	100.00
For the course leading to the degree of Pharmaceutical Chemist, a year	140.00
Breakage Deposit, covering wear and tear of equipment, estimated at $3.00 a year, and the breakage of apparatus, the balance being refunded at the end of the year	10.00
Graduation Fee	10.00

BOARD AND ROOMS

Within walking distance of the School is a quiet residence portion of the city near Lake Michigan. In this section room and board together may be obtained at from $4.50 to $6.00 per week. A less expensive way to live, however, is for two or several students to rent rooms together, either single rooms or ensuite, and secure their meals in one of the many excellent restaurants with which the city abounds.

Complete information regarding all of these matters may be obtained of the Y. M. C. A. secretary in the rotunda of Northwestern University building.

To assist worthy students who are compelled to earn their way while pursuing their studies the School has established an employment department. Familiarity with the business conditions in Chicago and large acquaintanceship with the druggists of the city afford unusual opportunities for placing young men in good drug stores at satisfactory remuneration. The Faculty does not recommend this double work, but if it is unavoidable, the School will gladly do all in its power to place students in satisfactory positions.

Some students find employment afternoons, evenings and at other times in miscellaneous kinds of work; through coöperation with the Young Men's Christian Association, a branch of which is a part of the equipment of the professional schools in Northwestern University Building, such places may be secured, the central location of the School making this plan easy of execution.

For further information regarding any feature of the School's work, address the Secretary, Room 414, Northwestern University Building, Lake and Dearborn Streets, Chicago, Illinois.

The Dental School

The Dental School

THE DENTAL SCHOOL was founded and is maintained for the purpose of preparing young men and young women in the most thorough manner for the practice of dentistry, and for the promotion of dental science and dental literature.

The Dental School was organized in 1887 and three years later became a department of the University. In 1896 it absorbed the American College of Dental Surgery and for some years occupied the building on Franklin and Madison Streets, Chicago, formerly occupied by that school. It is now located in Northwestern University Building, at the corner of Lake and Dearborn Streets, Chicago, occupying the upper three floors of the building, over 60,000 square feet.

The Clinic Room, sufficient in extent to accommodate the great clinic and the offices connected with it, is of the best design of construction, consisting of a single room with arched ceiling. It is on the sixth floor, with free light on two sides and abundant skylight. Adjoining the Operative Clinic is the Prosthetic Clinic, and on the same floor is the senior Prosthetic laboratory for crown and bridge work, the laboratory for porcelain and cast metal inlay work, an impression room, and two rooms and waiting room for extracting. The lecture rooms, three in number, are arranged on the amphitheater plan; each accommodates 225 students. Two are for the ordinary class lecture work, and one for the Oral Surgery clinic which has a waiting-room for surgical patients, a room for diagnosis and the preparation of patients, and a recovery room with sufficient beds for the temporary care of patients. Other rooms are the Anatomical laboratory, which is placed well apart, the first year and the second year Prosthetic laboratories, the Operative Technic laboratory, the first year and the second year Chemical laboratories, the laboratory for Histology and Bacteriology, the photographic laboratory, the museum, the reading room and library.

Northwestern University Building is in the transportation center of over three millions of people living within a radius of forty miles, a location especially advantageous for obtaining the great number of clinical patients needed in a dental school.

Abram Winegardner Harris, ScD., LL.D.
President

Greene Vardiman Black, M.D., D.D.S., Sc.D., LL.D.
Professor of Special Pathology, Operative Dentistry, Bacteriology, Materia Medica, and Therapeutics; Dean

Charles Rudolph Edward Koch, D.D.S.
Lecturer on Dental Economics; Secretary

Thomas Lewis Gilmer, M.D., Sc.D., D.D.S.
Professor of Oral Surgery

Edmund Noyes, D.D.S.
Professor of Dental Jurisprudence and Ethics

James Harrison Prothero, D.D.S.
Professor of Prosthetic Technics, Prosthetic Dentistry, and Metallography

Frederick Bogue Noyes, A.B., D.D.S.
Professor of Histology

Twing Brooks Wiggin, M.D.
Professor of Physiology and Pathology

George Amos Dorsey, Ph.D.
Professor of Comparative Anatomy

Charles Louis Mix, A.M., M.D.
Professor of Anatomy

Ira Benson Sellery, D.D.S.
Professor of Orthodontia

Harry Mann Gordin, Ph.D.
Professor of Chemistry

Arthur Davenport Black, B.S., M.D., D.D.S.
Assistant Professor of Operative Dentistry, and Assistant in Oral Surgery

Eugene Shaw Willard, D.D.S.
Assistant Professor of Operative Dentistry and Bacteriology

Fred William Gethro, D.D.S.
Assistant Professor of Operative Dentistry and Dental Anatomy

Harry Isaac Van Tuyl, B.S., M.D., D.D.S.
Assistant Professor of Anatomy

George Corwin Poundstone, D.D.S.
Assistant Professor of Special Pathology, Materia Medica, and Therapeutics

Clayton Frank Bloomfield Stowell, D.D.S.
Assistant Professor of Comparative Anatomy; Demonstrator in Extracting

Herbert Anthony Potts, M.D., D.D.S.
Lecturer on Anæsthesia, and Assistant in Oral Surgery

Jesse William Ritter, D.D.S.
Superintendent of the Clinic, and Lecturer in Operative Dentistry

James William Birkland, D.D.S.
Clinical Instructor in Operative Dentistry

George Buchanan Macfarlane, D.D.S.
Clinical Instructor in Operative Dentistry

Huston French Methven, D.D.S.
Instructor in Prosthetic Dentistry

Hillis Talley Brown, D.D.S.
Instructor in Anatomy

Benjamin Waldberg, D.D.S.
Superintendent of Prosthetic Laboratory

Jay Kaplan, Ph.C.
Assistant in Chemistry

Martin Loryn Johnson, D.D.S.
Demonstrator in Charge of the Examining Room

Michael Joseph Buckley, D.D.S.
Special Demonstrator in Orthodontia and Operative Dentistry

Francis Joseph Hemmer, D.D.S.
Demonstrator in Prosthetic Dentistry

Carl Martin Holland, D.D.S.
Demonstrator in Operative Dentistry

Nils Tuveson, D.D.S.
Demonstrator in Prosthetic Dentistry

Walter Mann Pruyn, D.D.S.
Demonstrator in Dental Anatomy and Operative Technics

Herman John Lund, D.D.S.
Demonstrator in Operative Dentistry

Andrew Tiernan, D.D.S.
Demonstrator in Operative Dentistry

Earl Todd Young, D.D.S.
Demonstrator in Operative Dentistry

Floyd DeWitte Leach, D.D.S.
Demonstrator in Dental Anatomy and Operative Technics

Walter LeRoy Wilson, D.D.S.
Demonstrator in Prosthetic Technics

Admission and Instruction

A candidate for admission to the Dental School may be accepted upon presentation of a diploma or equivalent certificate from an accredited high school or kindred educational institution, or upon passing a satisfactory examination. The diploma must be signed by a superintendent of schools, the principal of a high school, or other responsible school officer. A certificate showing that a candidate has been graduated from an accredited high school, or from a school giving an equivalent course, signed by a city or county superintendent of schools, or by a state superintendent of public instruction, will be accepted as the equivalent of a diploma. A candidate who does not present such diploma or certificate must take an examination before a state superintendent of public instruction, or his deputy, and bring a report showing that the candidate has a preliminary education equivalent to that to be obtained in an accredited high school.

This School will receive no student who is not present within ten days after the opening day of the session in each year, or in case of necessary delays, by reason of illness properly certified by the attending physician, within twenty days after the opening day.

Students registering agree thereby to accept the discipline imposed by the Faculty.

It is desirable that students should register early, since the order of assignment of seats in the lecture halls is based upon the order of registration.

ADMISSION TO ADVANCED STANDING

Students from high schools and colleges, wishing credit for courses parallel to courses required in this School, should bring credentials showing the time spent on these subjects and should present their note books written in these courses.

Students who present certificates from other recognized dental schools covering subjects required in this School will be credited with such studies if the credentials are satisfactory to the Dean and to the professors in the respective departments, but when admitted to the third year the candidate must do one full year's work in this School. Graduates in medicine are credited with one year of time.

Course for the Degree of Doctor of Dental Surgery

The course covers three years. The year begins on the first Tuesday in October and closes on Commencement Day of the University in June. There are thirty-two weeks of actual instruction given, six days in each week.

Students for the regular course are received only during the first ten days of the first semester. Students desiring to pursue special studies may be received at any time.

For regular students who desire to extend their studies to four or more years, a special arrangement of studies will be provided.

A post graduate, or practitioner's course has been specially arranged which begins the day after Commencement in each year, and continues during four weeks thereafter.

METHODS OF INSTRUCTION

The studies of the course are grouped by departments, the work of each department proceeding from the general and fundamental subjects to the specialized and advanced.

The work in the departments is planned with reference to that of other departments, and the greatest care is taken that the whole shall be so correlated that the student in taking up a new subject will find himself prepared by work done in other departments.

Schedule of Courses

Students are expected to take the courses in the order enumerated, but some deviation from this rule may be allowed in cases approved by the Faculty.

Each of the departments is presented under the headings as given in the table below, separately and completely, and in alphabetical order, and courses are described fully in the order of the letters.

FIRST YEAR WORK

Anatomy a, b, c, d.
Chemistry a, b, c, d.
Histology a, b, c.
Operative Technics c, d, e, f, g, h.
Dental Anatomy a, b.
Physiology a, b, c, d.
Prosthetic Technics a, b, c, d, e.

SECOND YEAR WORK

Anatomy e, f, g.
Chemistry e, f, g, h.
Histology d, e, f, g.
Materia Medica and Therapeutics a, b, c.
Operative Dentistry i, j, k.
General Pathology a, b.
Physiology e, f.
Prosthetic Dentistry f, g, h, i.

THIRD YEAR WORK

Comparative Anatomy, a.
Ethics, Jurisprudence, and Dental Economics, a, b.
Operative Dentistry, l, m, n, o, p, q.
Bacteriology, r, s.
Oral Surgery, a, b, c, d, e, f.
Anaesthesia, g, h, i.
Orthodontia, a, b, c.
Pathology and Therapeutics, a, b, c, d, e.
Prosthetic Dentistry, j, k, l.

Anatomy

PROFESSOR MIX, PROFESSOR VAN TUYL, DR. BROWN, AND ASSISTANTS

The equipment of the department of anatomy is new and complete. The large Anatomical Laboratory, on the top floor of the building, is well lighted on the east and south by numerous windows, and in the center of the room by a large skylight. The ventilation is perfect. The equipment includes thirty-six dissecting tables of the latest pattern, of metal with plate-glass tops. The floor is waterproof and has such drainage that it can be flooded with hose and kept thoroughly clean. Skeletons are provided for the use of the students. On payment of a small deposit bones may be taken for home study.

FIRST YEAR

a. *Visceral Anatomy, Introductory Course*—First third of first semester. Two lectures and demonstrations a week. Professor Mix.

b. *Human Dissections*—One three-hour period a week. Professor Mix, Professor Van Tuyl, Dr. Brown, and assistants.

c. *Anatomy of the Extremities*—Two lectures a week. Professor Mix.

d. *Recitations on Lectures and Dissections*—Two hours a week. Professor Van Tuyl and assistants.

SECOND YEAR

e. *The Head and Neck*—Two lectures a week. Professor Mix.

f. *Human Dissections*—Two three-hour periods a week. Professor Mix, Professor Van Tuyl, Dr. Brown, and assistants.

g. *Recitations on Dissections*—Two hours a week. Professor Van Tuyl.

Chemistry

PROFESSOR GORDIN AND ASSISTANTS

The Chemical Laboratories, exclusively for dental students, are large, well ventilated, and complete in every respect. One laboratory is devoted to General Chemistry and Qualitative Analysis, another is arranged with special reference to the experimental teaching of Metallurgy and to other practical applications of chemistry of interest to dental students. In addition to the main laboratories, there are large dispensing rooms, a balance room well equipped with balances and apparatus for testing the physical properties of metals, amalgams, etc., and a room covered with a hood for carrying off fumes, and equipped for alloying, assaying and refining.

FIRST YEAR

a. *General and Inorganic Chemistry*—Lectures and recitations. First semester. Two hours a week. Professor Gordin.

b. *Chemical Laboratory*—Illustrative experiments in General and Inorganic Chemistry. First semester. Six hours a week. Professor Gordin and assistants.

c. *General and Inorganic Chemistry*—Lectures and recitations. Second semester. Two hours a week. Professor Gordin.

d. *Laboratory*—The metals and their compounds. Qualitative chemical analysis of unknown mixtures, particularly bases and alloys. Second semester. Six hours a week. Professor Gordin and assistants.

SECOND YEAR

e. *Organic Chemistry*—Lectures and quizzes. Two hours a week. Professor Gordin.

f. *Laboratory*—Quantitative chemical analysis of dental alloys, etc. Refining of gold, silver and other metals. Laboratory study of cements and other filling materials. Assay of dental alloys for

gold, silver, tin, platinum. Practical problems of dental chemistry. First semester. Three hours a week. Professor Gordin and assistants.

g. *Laboratory*—Illustrative experiments in Organic Chemistry. Analysis of saliva. Urine analysis. Second Semester. Three hours a week. Professor Gordin and assistants.

Comparative Dental Anatomy

PROFESSOR DORSEY

(Note.—In the absence of Professor Dorsey the subject will be presented by Assistant Professor Stowell.)

It is the design of the department to give in a concise form a view of the animal kingdom and its classifications, especially of the vertebrates, the forms of teeth in relation to food habits, and as weapons of offense and defense; a study of the extinct species of animals of the several classes, variations in tooth forms, illustrating development through the geological ages; the history of the changes from the simple forms to the complex forms now existing. The Museum of the Dental School is especially rich in skulls of the several orders of the animal kingdom, and furnishes illustrations for the study of all of the known tooth forms. The great collection of the Field Columbian Museum is available for illustration and study.

THIRD YEAR

a. *Evolution*—The meaning of similarity of structure; natural selection; changes in organs; correlation of growth between parts; principles of heredity and of fixity of species; tooth forms; definitions and descriptions of the varieties of forms; the typical mammalian dentation; classification of the animal kingdom, with concise descriptions of the typical characteristics of each. First semester. Two lectures a week. Professor Stowell.

Professional Ethics, Dental Jurisprudence, and Economics

PROFESSOR EDMUND NOYES AND DR. KOCH

This work consists of a brief statement of the important principles of morals; an exposition of the special duties and moral obligations of professional men to their patients, their fellow practitioners, and the public; the more important contrasts between the

proper ethical standard of the professions and those of business or manufacturing pursuits.

The lectures on Jurisprudence follow, in the main, the text-book by Dr. Rehfuss, and include qualification and duty of expert witnesses, the importance of dental records, the limitations of dental practice, the qualifications required and the liabilities incurred, the penalties that may be suffered, and the defense to be made in case of alleged malpractice; the laws respecting the practice of dentistry, the steps necessary to become legal practitioners, and the duties and liabilities of dentists with reference to the law.

THIRD YEAR

a. *Ethics*—Elementary principles of ethics; professional ethics; state laws relating to dentistry; Illinois dental law; dental jurisprudence; general review. Second semester. One lecture a week. Professor Edmund Noyes.

b. *Dental Economics*—This course was established to equip the increasing number of students without previous preceptorship in a dental office with a knowledge of the business side of dental practice. The work embraces practice building, methods of obtaining and retaining patients, business relations between the dentist and his patients, fees, accounts, records of operations, presentation and collection of accounts, methods of economy in the conduct of an office. Second semester. One lecture a week. Dr. Koch.

Histology

PROFESSOR F. B. NOYES AND ASSISTANTS

The department is provided with a large laboratory, fitted with seventy-one hardwood desks, each furnished with reagents, lockers, a compound microscope with lenses and condensers, electric lights, and other conveniences for preparation of specimens and microscopic study. It is provided also with a stereopticon and projecting microscope for demonstration purposes. Adjoining this large laboratory, there are a professor's study, and preparation laboratory with a photographic room fully equipped with all necessary apparatus.

The laboratory classes are usually divided into sections of not more than fifty students. This work has been greatly aided by a large collection of lantern slides from photo-micrographs and framed photographic prints; and by a large histological museum containing sets of microscopic slides sufficient in number on any given subject

for a full section of the class, illustrating not only the ordinary soft tissues, but also the peridental membranes, dental pulp, periosteum, and ground sections of the teeth. These microscopic slides and sections, together with those stained and mounted by the students, are used by the classes for purposes of study.

FIRST YEAR

a. *Lecture Course*—The construction and the use of the microscope. A study of cell structure and functions, of the elementary tissues; histology of the organs; circulatory, lymphatic, alimentary tract, and accessory glands, respiratory system, urinary organs, and skin. One lecture a week. Professor F. B. Noyes.

b. *Laboratory Course*—A laboratory study of the subjects of the lecture course. One three-hour period a week. Professor F. B. Noyes, and assistants.

c. *Quizzes and Recitations*—One hour a week.

SECOND YEAR

d. *The Dental Tissues*—Enamel; the peridental membranes; periosteum; bone; mucous membranes and other soft tissues of the mouth. One and two-thirds semesters. One lecture a week. Professor F. B. Noyes.

e. *Embryology*—A short course. One lecture a week. One-third of a semester. Professor F. B. Noyes.

f. *Laboratory Course*—A laboratory study of the subjects of lecture courses d and e. One three-hour period a week. Professor F. B. Noyes and assistants.

g. *Quizzes and Recitations*—One hour a week.

Physiology

PROFESSOR WIGGIN

The work in Physiology includes a course of two lectures a week and text-book study with quizzes, in the first year; in the second year the subject is continued, one lecture a week, devoted mainly to the brain, nervous system, and to the functions of reproduction.

FIRST YEAR

a. *General Physiology*—The structure of the elementary tissue; the chemical composition of the body; the blood; the circulation of the blood. First semester. Two lectures a week. Professor Wiggin.

b. *Quizz Class Work*—In sections. First semester. Two hours a week.

c. *Respiration*—Secretion; food digestion; metabolism; nutrition and diet; animal heat; excretion; muscle; nerve physiology; production of voice. Second semester. Two lectures a week. Professor Wiggin.

d. *Quizz Class Work*—In two sections. Second semester. Two hours a week.

SECOND YEAR

e. *The Central Nervous System*—Brain; spinal cord; reproductive organs; development. Lectures and recitations. One hour a week. Professor Wiggin.

f. *Quizz Class Work*—In sections. Two hours a week.

General Pathology

PROFESSOR WIGGIN

This course is essential to the student's understanding of general pathological conditions, and forms the basis of his studies of the special pathology of the tissues of the teeth, the membranes of the teeth; the correlated tissues, and the organs of the mouth.

SECOND YEAR

a. *Etiology of Disease*—Disorders of nutrition and metabolism; diabetes; fever; general circulatory disturbances; local hyperemia; local anemia; hemorrhage; embolism; infarction; thrombosis; retrogressive processes; atrophy; infiltrations and degenerations; necrosis; inflammation; progressive tissue changes; neoplasms; infections; granulomata; bacteria, and diseases caused by them. Lectures and recitations. One hour a week. Professor Wiggin.

b. *Quizz Class in Sections*—Second semester. Two hours a week.

Operative Dentistry, Pathology and Bacteriology

PROFESSOR G. V. BLACK, PROFESSOR A. D. BLACK, PROFESSOR WILLARD, PROFESSOR GETHRO, DR. BIRKLAND, DR. MACFARLANE, AND ASSISTANTS

Operative Dentistry in some of its forms is presented to the student from the time he enters the school to his graduation. In

the first semester of the first year he makes a study of the human teeth, or dental anatomy. Operative technics is presented in the second semester and includes studies of the forms and nomenclature of the instruments used in operations on the teeth, of the preparation of cavities for filling, of filling materials and their manipulation.

The second year includes a lecture course with demonstrations on the technical procedures in filling teeth, and the student begins practical operations in the clinic room.

The third year includes a review of the technical procedures in filling operations, followed by a careful study of the pathology of dental caries, and the adaptation of means to its amelioration and cure.

The Clinic Rooms, built especially for the purpose, have abundant room with the best of light. They are well equipped with Columbia operating chairs in ample number for the classes.

The Operative Infirmary Clinic is under the direct supervision of the Professor of Operative Dentistry. The student begins this work with the opening of his second year and continues it to the end of the third year; the time given to it is much greater in the third year than in the second. It is the intention that this infirmary practice shall be as much like an actual dental practice as possible. The development of the ability to obtain and hold a practice, or the professional courtesy of an operator toward his patient essential to personal success, is regarded equal in importance to the development of manipulative ability.

The clinic rooms are open through the whole year for the benefit of students who may wish to have greater experience in clinical practice under competent supervision. The number of demonstrators during the summer is sufficient for the class that chooses to remain with the school. The clinical material is ample and excellent opportunity is offered for clinical practice.

DENTAL ANATOMY

FIRST YEAR

a. *Descriptive Anatomy of the Human Teeth*—Nomenclature. First semester. One lecture or recitation a week. Professor Gethro.

b. *Laboratory Course*—Studies of the forms of individual teeth; carving the tooth forms in bone or ivory; dissections and studies of the internal parts—pulp chambers and root canals. First semester. Nine hours a week. Professor Gethro and assistant.

OPERATIVE TECHNICS

FIRST YEAR

c. *Instruments and Instrumentation*—A study of instrument forms, instrument construction, and the adaptation of instruments to the excavation of cavities. First third of second semester. One lecture a week. Professor Gethro.

d. *Laboratory Course*—First third of second semester. Nine hours a week. Professor Gethro and assistants.

e. *Cavity Nomenclature*—A study of the location of cavities in extracted teeth, of the forms of prepared cavities, of the naming of internal parts of cavities, and of the use of instruments in their preparation. Second third of second semester. One lecture a week. Professor Gethro.

f. *Laboratory Course*—Second third of second semester. Nine hours a week. Professor Gethro and assistants.

g. *Filling Materials and Filling Teeth*—Third third of second semester. One lecture a week.

h. *Laboratory Practice*—Filling materials and filling prepared cavities; extracted teeth, ivory, or bone. Third third of second semester. Nine hours a week. Professor Gethro and assistants.

SECOND YEAR

i. *Technical Procedures in Cavity Preparation*—Cavity nomenclature; cavity preparation; principles, instruments and appliances, and instrumentation; cavity preparation, by classes of cavities. One lecture and recitation a week, Professor Gethro.

j. *Technical Procedures in Filling Teeth*—Filling materials; instruments and instrumentation, physics of filling operations, and of finishing fillings. Porcelain inlays; preparation of cavities; formation of matrix; making and inserting inlays; gold inlays. Filling with amalgam, cements, gutta-percha. Exposure and removal of dental pulp. Preparation and filling of root canals. One lecture and recitation a week. Professor A. D. Black.

k. *Operative Clinic*—Open to second year students four hours a day during the entire season. Operations amounting to one hundred points required in gold, and one hundred points in amalgam. Professor A. D. Black and assistants.

THIRD YEAR

l. *Review of Technical Procedures in Filling Teeth*—First half of first semester. Two lectures a week. Professor A. D. Black.

m. *Pathology of Dental Caries*—Bacteriology of the human mouth; causative relation of bacteria to dental caries; caries of enamel; caries of dentin; inception and progress of dental caries; conditions of the beginning of dental caries; systemic causes of dental caries; susceptibility and immunity to dental caries; vital phenomena in dental caries; hyperesthesia of dentin; treatment of dental caries; curative effect of fillings; selection of filling materials. Second half of first semester. Two lectures and recitations a week. Professor A. D. Black.

n. *Management of Patients*—Cleanliness; evil habits in chewing food, and their correction. Management of special conditions. Management of cavities by classes; extension for prevention and its limitations; esthetic considerations. Erosions, management of cases of erosion. Atrophy; management of cases of atrophy. Second semester. Two lectures and recitations a week. Professor A. D. Black, Dr. Ritter, and assistants.

o. *Quizzes and Recitations*—One hour a week. Professor Willard.

p. *Operative Clinics*—Open to third year students from 10:30 to 5:30 daily during term time. Operations amounting to two hundred points are required in gold, and two hundred points in amalgam. Professor G. V. Black, Dr. Ritter, and assistants.

q. *Special Fillings*—Fillings are made under the instruction and immediate supervision of the special clinical instructors, and later full written descriptions of the conditions indicating the operation, the instrumentation and choice of instruments used, are submitted for grading as to excellence. Dr. Macfarlane and Dr. Birkland.

BACTERIOLOGY

A combined lecture, recitation, and laboratory course. The equipment includes culture ovens, sterilizers, conveniences for handling test tubes and for making culture media.

THIRD YEAR

r. *Principles of Bacteriology*—The preparation of culture media; management of laboratory cultures; distinguishing varieties of micro-organisms in laboratory cultures; physiology of micro-organisms; poisons produced by micro-organisms; diseases caused by micro-organisms, particularly those of the teeth and mouth; susceptibility and immunity to diseases. One lecture a week. Professor Willard.

s. *Laboratory Work*—Preparation of culture media; planting and management of cultures; separation of species in mixed cul-

tures; deriving pure cultures from infected animals; cultures from saliva, from mucous membranes and from carious teeth; staining, mounting, and microscopic studies; diagnosis of unknowns. Three hours a week. Professor Willard.

Oral Surgery

PROFESSOR GILMER, PROFESSOR A. D. BLACK, DR. POTTS, AND ASSISTANTS

The course embraces instruction in the general principles of surgery and in the practical application of surgery to pathological conditions occurring in or about the mouth and face, giving special attention to diagnosis and recognition of conditions.

The subject of Anaesthetics and Anaesthesia is presented in detail in lectures, in experiments on animals, in the clinic, in the oral surgery and daily in the extracting clinic. Nitrous oxide is used generally in the extracting clinic, and ether and chloroform in the oral surgery clinic. Local anaesthesia is exhibited frequently in the clinic in cases to which it is adapted.

THIRD YEAR

a. *Surgical Bacteriology*—Inflammation; suppuration; wounds; hemorrhage; necrosis; caries of bones; diseases of the maxillary sinus; resection of roots; tetanus; ankylosis; arthritis; facial neuralgia; fractures; dislocations; extraction of teeth; malposition of third molars; impacted teeth; replantation, transplantation, and implantation of teeth; cleft palate and harelip; affections of the lips, tongue and mouth; tumors; odontomes, ranula; cysts; aneurisms. One lecture a week. Professor Gilmer.

b. *Recitations and Quizzes*—One and one-half hours a week. Professor A. D. Black.

c. *Surgical Clinic*—Two hours a week throughout the year. Professor Gilmer, nurses from St. Luke's Hospital, Dr. A. D. Black, and Dr. Potts.

d. *Special Clinical Instruction*—Diagnosis and case histories. One hour a week. Professor A. D. Black.

e. *After-Treatment of Surgical Cases*—By students, under direction of Professor Gilmer.

f. *Clinic in the Extraction of Teeth, daily*—Open to second and third year students. Dr. Stowell.

g. *The Evolution of General Surgical Anaesthesia*—State of the patient; nature of operation; choice of anaesthetic; prolonged den-

tal operations; circumstances of administration; inspection and examination of patients; general anaesthetic agents; local and regional anaesthetics, dangers of anaesthesia. Second semester. One hour a week. Dr. Potts.

h. *Clinical Administration of Anaesthetics*—Oral surgery clinic. Two hours a week. Dr. Potts.

i. *Clinical Exhibition of Nitrous Oxid Anaesthesia*—Daily in extracting clinic. Dr. Stowell.

Special Pathology

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR G. V. BLACK, PROFESSOR POUNDSTONE, AND ASSISTANTS

Materia Medica is taught in a series of lectures, quizzes, and recitations, with demonstrations and experimental studies. There is also a laboratory study of the most useful methods of preparing drugs for medicinal purposes, with experimental studies of their therapeutic or toxic action. The course is richly illustrated throughout. Abundant practice is given in prescription writing. The great clinic, to which students have access throughout the year, gives ample opportunity to witness the application and therapeutic effects of drugs, and to obtain clinical practice.

SECOND YEAR

a. *The Sources and Various Forms of Drugs*—General and local action of drugs; agencies that modify the action of drugs; the art of prescribing medicines; a critical study of about one hundred drugs, classified according to their therapeutic and toxic action; a special laboratory study of escharotics, germicides, antiseptics, deodorizers. Systematic medication for dental purposes; dental prophylaxis; the use of germicides, antiseptics, escharotics, and astringents in dentistry. First semester. One lecture a week. Second semester. Two lectures a week. Professor Poundstone.

Lectures and Recitations—Professor Poundstone.

b. *Theses*—Each student is required to write ten theses, of not less than three hundred words each, on subjects assigned.

c. *Clinical Practice*—The Infirmary is open to second year students four hours a day for the observation of conditions requiring the use of drugs and for clinical practice in their treatment. Each student is required to make one hundred points in clinical experience. See also Special Pathology and Therapeutics.

SPECIAL PATHOLOGY AND THERAPEUTICS

In dental practice this is a department of operative dentistry. It includes a study of the diseases and the abnormal conditions of the pulps of the teeth, of the membranes of the teeth, of the immediate surrounding soft tissues and bones, and the mucous membranes of the mouth. See also Oral Surgery.

THIRD YEAR

d. *Review of the Structure and Functions of the Dental Pulp*—Hyperemia and inflammation of the pulp; capping exposed pulps; obtunding sensitive dentin. Pulp devitalization; pulp removal; treatment of canals; root filling; suppuration; the healing process; immunity and susceptibility; suppuration of the dental pulp; alveolar abscess; absorption of roots of teeth and of bone; caries of bone; necrosis. A study of germicides and antiseptics with laboratory tests. Bleaching teeth. First semester. Two lectures a week. Professor G. V. Black.

e. *Peridental Membranes*—Review of histological structures; simple gingivitis; calcic inflammation; phagadenic pericementitis; replantation and transplantation of teeth; functions of the mucous membranes of the mouth; stomatitis; prophylaxis; mouth hygiene. Second semester. Two lectures a week. Professor G. V. Black.

f. *The Childhood Periods*—Management of children; the special pathological conditions of the teeth, their membranes, the gums, etc.; treatment of caries of the deciduous teeth. The shedding of the deciduous teeth; accidents of the shedding process. Growth and absorption of the roots of deciduous teeth. Growth to completion and reduction of the size of the apical foramen of the permanent teeth. Second half of second semester. Two lectures a week. Professor G. V. Black.

g. *Clinical Practice*—In addition to the above courses, third year students are required to make two hundred points in practical treatments in the Infirmary clinic, and to send in for examination and criticism a complete history of the conditions found and the treatment record of each ten cases.

Orthodontia

PROFESSOR SELLERY, DR. BUCKLEY, AND ASSISTANTS

Orthodontia is taught both didactically and clinically. Proceeding from the normal occlusion, derangements of the alignment of the

teeth and malformations of the dental arch are systematically classified, and mechanical arrangements of fixtures for bringing the several classes of irregularities into normal form are carefully studied. Text-books: Angle, Guilford, Knapp. Lantern slides from photographs, X-ray pictures, and models of cases are used.

THIRD YEAR

a. *Occlusion and Facial Art*—Etiology, classification, diagnosis of malocclusion. The alveolus and alveolar processes, the peridental membranes, and use of models. First semester. One lecture a week. Professor Sellery.

b. *Regulating Appliances, Angle, Guilford, Knapp*—Anchorages, jack screws, levers, traction screws, extension arch and combinations, split plates, reciprocal anchorages, retention. Illustrated with models, with movable teeth and enlarged appliances. Stereopticon views, illustrating progressive regulation and final fixation. Second semester. One lecture a week. Professor Sellery.

c. *Clinic or Infirmary Course*—Open to students during first and second semesters for practical work in the correction of practical cases. Professor Sellery, Dr. Buckley, and assistants.

Prosthetic Dentistry

PROFESSOR PROTHERO, DR. RITTER, DR. METHVEN, DR. WALDBERG, AND ASSISTANTS

The Prosthetic Technic Laboratory and the Junior Prosthetic Laboratory are situated on the fifth floor; and the Senior Prosthetic Laboratory, the porcelain and inlay laboratory are situated on the sixth floor, adjacent to the crown and bridge room. All are well supplied with outside light, and also are equipped completely with electric lights.

Each laboratory is furnished with electric lathes for grinding and polishing. The Junior Laboratory is completely equipped with the heavier laboratory appliances, such as vulcanizers, celluloid presses, and apparatus for casting aluminum plates. The Prosthetic Laboratory, for the use of second and third year students, and devoted to practical operations for patients, is equipped with the appliances necessary for modern prosthetic dentistry, including compressed air for blow pipe work. The adjacent porcelain and gold inlay laboratory is fitted with electric furnaces and with gasoline furnaces and various kinds of swaging devices and casting apparatus for gold-inlay work. The crown and bridge room, for practical prosthetic

operations, is equipped with thirty modern operating chairs and a sufficient number of electric connections.

FIRST YEAR

a. *Prosthetic Technics*—This course covers the fundamental principles of denture construction and crown and bridge work, and accompanies the laboratory course. First semester. One lecture a week. Professor Prothero.

Quiz and Recitation Work—First Semester. One hour a week. Dr. Methven.

b. *Laboratory Course*—Impression taking, model constructing, occluding, waxing, flasking; packing, vulcanizing, and finishing partial and full artificial dentures. First semester. Nine hours a week. Professor Prothero, Dr. Methven, and assistants.

c. *Metallography*—A descriptive course on the nature and physical properties of metals, especially those used in dentistry, with fundamental principles of their uses; the manipulation of metals, swaging, annealing, solders, and soldering, welding, tempering. Second semester. One lecture a week. Professor Prothero.

d. *Quiz or Recitation*—On the work of Courses a, b and c. Second semester. One hour a week. Dr. Methven.

e. *Laboratory Course*—Construction of dies and counter dies; swaging metal bases of German silver; attaching teeth by soldering and by vulcanite; construction of crowns and dummies, all metal, and metal and porcelain; assembling individual crowns and dummies to form bridges; constructing and tempering taps and dies of steel; drawing wire and tubing suitable for the construction of orthodontia appliances. Second semester. Nine hours a week. Professor Prothero, Dr. Methven, and assistants.

SECOND YEAR

f. *Lecture Course*—Review of technic principles outlined in first year; their application to practical operations in the Infirmary. The physical properties of plaster of Paris and other materials employed in prosthesis. Muscles of mastication; force of the bite; movements of the lower jaw; natural arrangement and occlusion of artificial teeth. One lecture a week. Professor Prothero.

g. *Quiz or Recitation*—One hour a week. Dr. Methven.

h. *Laboratory Course*—Construction of full metal and partial metal base dentures, with teeth attached by soldering and by vulcanite; construction and application of clasps to partial dentures; ad-

vanced work in crowns and bridges. Nine hours a week. Professor Prothero, Dr. Waldberg, and Dr. Methven.

i. *Prosthetic Clinic*—Each student is required to carry to completion for patients a number of practical cases, representing each of the various classes of prosthesis, amounting to at least one hundred points in crowns and bridges and one hundred points in plate work. Professor Prothero, Dr. Methven, and assistants.

THIRD YEAR

j. *A Critical Review*—Summary of recent methods and appliances; application of porcelain in prosthesis; baked porcelain crowns; porcelain bridges, full porcelain dentures; methods of cavity preparation for porcelain inlays; forming, baking, and setting porcelain inlay. Methods of obtaining wax models of cavities, forming investments, and casting, and setting gold inlays. The student is assigned a series of articles for reading, and is required to present a thesis covering the subject named. One lecture a week. Professor Prothero.

k. *Laboratory Course*—Cast aluminum base dentures; celluloid dentures; banded Logan crowns; baked porcelain crowns; porcelain bridges; continuous gum dentures. First semester. Six hours a week. Professor Prothero, Dr. Waldberg, Dr. Methven, and assistants.

l. *Prosthetic Clinic*—Practical pieces of prosthetic work of all varieties made and fitted for patients in the Infirmary. Studies of the condition of the mucous membranes; the preparation of roots for crowns and the abutments of bridges; making and setting crowns and bridges, and preparation of cavities and setting porcelain or gold inlays. The minimum requirement is two hundred points in crowns and bridges and two hundred points in platework.

The Infirmary is open to students from 10:30 to 5:30 o'clock each day during term time. This period is divided between the Prosthetic and the Operative Departments, and text-book work and general reading. Professor Prothero, Dr. Ritter, Dr. Methven, and assistants.

Course for Graduates and Practitioners

The course opens on June 13, 1912, and continues four weeks, with six days of teaching each week. It includes two hours of lectures and six hours of practical teaching each day, by members of the regular staff of the School. Especial attention is given to porcelain and gold inlays, crowns, bridge work of all kinds, the treat-

ment of pyorrhœa, and the most recent methods in Operative Dentistry, Oral Surgery, and Orthodontia. The studies for 1912 are:

Operative Dentistry and Special Pathology—Professor G. V. Black, assisted by Professor A. D. Black and others.

Histology, as Applied to Operative Dentistry—Professor Frederick B. Noyes.

Oral Surgery—Professor Gilmer and assistants.

Prosthetic Dentistry—Professor Prothero and assistants.

Orthodontia—Professor Sellery.

Certificates are given to those who complete the course.

For the fees payable for this course see "Fees and Expenses," pages 334 and 335.

General Statements

REQUIREMENTS FOR DEGREE

The degree of Doctor of Dental Surgery is conferred upon students recommended therefor by the Faculty of the School. Candidates are recommended who have attended the required courses of lectures, who have passed satisfactorily all required examinations in the subjects of study, the entire last year having been completed in this School; who have completed the required clinical and laboratory work; who in the judgment of the Faculty are of fit moral character and are 21 years of age; and who have discharged in full all financial obligations to the University.

THE LIBRARY AND READING ROOM

The Menges Library and Reading Room, named in honor of the late Dr. Theodore Menges, occupies, together with the attached Journal Reading Room, three thousand feet of floor space. It is furnished with reading tables and chairs for about one hundred students. The Library contains 3,079 volumes of books on dental and collateral subjects; a rich supply of dictionaries and encyclopedias conveniently placed in the Reading Room for easy consultation; and a nearly complete list of the dental journals that have been published in the English language, with about 16,000 duplicate numbers. The books most used by the students are duplicated, up to six or twelve, and a few to fifteen copies. The books and journals may be used in the Reading Room without restriction, and when

the duplication of volumes will allow, they may be drawn out as a circulating library.

THE MUSEUM

The Museum is in the Reading Room and is open to inspection and study. The cases are arranged to show the specimens to the best advantage.

The comparative anatomy specimens are, with the exception of the gorilla and chimpanzee, of which there are full skeletons, heads with the teeth. There is a sufficient number of varieties of each of the several orders to afford specimens of every kind of tooth form and of every variety of placement in mammals, saurians, and snakes, with a large variety of fishes.

The principal specimens of human skulls are, first, an excellent mounting of the separated bones of the adult; second, a fine set of dissections in a series showing the development of the teeth and the roots from the first appearance in the fetus to the full adult development, and illustrating the absorption of the roots of the deciduous teeth, the shedding process, and the replacement by permanent teeth; also the absorption of the alveolar processes after the loss of teeth, with the changes that occur in the form of the bones of the jaws from childhood to old age. This is an exceptionally complete, attractive, and valuable set of specimens. There is also a variety of ordinary human skulls.

The Museum contains also a valuable collection of human teeth of abnormal forms; a very full and complete set of specimens illustrating interproximal wear and the flattening of the points of interproximal contact. It is especially rich in casts of cases of supernumerary teeth; some illustrations of the very early forms of artificial teeth, of manufactured porcelain teeth, and of dental instruments, illustrating the development in these lines. This collection has been made in the School largely by students and by alumni, and is being continually increased by donations from those who have met with specimens unusual or rare in practice. Such donations are requested from all practitioners to assist in building up this great museum of abnormal conditions of teeth and of associated parts for the benefit of dental education.

FEES AND EXPENSES FOR 1912-1913

Tuition Fee—A year $150.00

This fee may be paid in two or three installments. If paid in two installments, $78.00 must be paid not later than October 20, and

$75.00 on February 20. If paid in three installments, $55.00 must be paid not later than October 20, $50.00 on January 20, and $50.00 on April 20.

Registration Fee—A year ..... $ 5.00
Breakage Fee—A year 1.00
Anatomical Fee—For first and second year students 5.00
Laboratory Fees in Chemistry—For first and second year students 5.00
Laboratory Fee in Histology—For first and second year students 5.00
Final Examination Fee—For Seniors 15.00
Locker Fee—For use of a locker for the protection of a student's private property, the student furnishing his own own lock, a year ..... .50

Time of Payment of Fees—All fees are payable at the beginning of the school year.

Refund of Fees—Fees are returned only in the case of serious illness.

Payments should be made in currency or in Chicago exchange drawn to the order of the Secretary of Northwestern University Dental School.

BOARD AND LODGING

Rooms and board may be obtained at $4.00 to $6.00 a week. Rooms without board, furnished or unfurnished, may be had at $6.00 to $10.00 a month.

PRACTITIONERS' COURSE FEES

Registration ..... $ 5.00
Tuition for one subject 45.00
Tuition for two or three subjects 60.00
Tuition for the entire course 70.00

Graduates of the School are allowed a reduction of 20 per cent from these fees.

For further information relating to the Dental School, address The Secretary, Northwestern University Dental School, Chicago, Illinois.

The School of Music

The School of Music

THE SCHOOL OF MUSIC was established in 1895. It offers extensive practical and theoretical courses in music, and is equipped to fit students for the profession as composers, theorists, artists, teachers, or critics. It makes provision also for the study of music as a part of general culture or as an accomplishment.

The School occupies Music Hall on Willard Hall Campus. This building was erected during the year 1897 for the special needs of the School of Music. It is situated on University Place, between Sherman and Orrington Avenues, immediately to the north of Willard Hall and one block west of the University Campus. It is within easy access of all electric railways, and is two blocks east and two blocks north of the Evanston railway station. It is substantially built of stone and brick, with a tile roof, and is finished in Georgia pine. The main floor contains the Office of the Dean, the Business Office, Reception Room, teaching and practice rooms. On the second floor are additional class-rooms, and a well-arranged concert hall seating three hundred fifty persons. The hall is provided with a large stage, with dressing rooms, a grand piano, a two-manual pipe organ with pedals, and is seated with opera chairs. The basement floor is divided into fourteen rooms, giving a large class-room for recitations in theory and musical history, and thirteen practice rooms.

With its Preparatory Department, and its Certificate and Diploma Courses, the School of Music supplies facilities for the study of music from the beginning to an advanced stage of artistic proficiency. Students desiring to fit themselves for professional performance will find well ordered courses in the study of piano, organ, violin, violoncello, or singing, together with auxiliary studies in the theory and history of music. The student seeking to specialize in theory, composition, or the history of music will find opportunities for development in these departments of work.

The courses of instruction are under the guidance of experienced specialists who have enjoyed the best advantages afforded by this country and Europe. The scholarly side of musical attainment represented in the theoretical courses is unusually complete and exhaustive. While open to all seeking musical instruction, the School particularly welcomes earnest, capable, and diligent students who desire to comprehend and interpret a noble art.

Abram Winegardner Harris, Sc.D., LL.D.
President

Peter Christian Lutkin, Mus.D., A. G. O.
Dean

Irving Hamlin
Secretary

Peter Christian Lutkin, Mus.D., A. G. O.
Professor of Organ, Theory, and Composition

Harold Everard Knapp
Director of the Violin Department
Professor of Violin and Ensemble Playing

Arne Oldberg
Director of the Piano Department
Professor of Piano and Composition

George Alfred Grant-Schaefer
Director of the Vocal Department
Professor of Voice Culture

William Henry Knapp
Instructor in Voice Culture

Day Williams
Instructor in Violoncello

Margaret Cameron
Instructor in Piano

Louis Norton Dodge
Instructor in Piano and Theory

Nina Shumway Knapp
Instructor in Piano

Victor Garwood
Instructor in Piano and History of Music

*Bertha Althea Beeman
Instructor in Voice Culture

Hila Verbeck Knapp, A.B.
Instructor in Piano

Charles John Haake
Director of the Preparatory Department
Instructor in Piano

Alta Dorothy Miller, B.L.
Instructor in Voice Culture

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*In Europe on leave of absence.

Gail Martin Haake
Instructor in Piano and Normal Methods

Nellie Beulah Flodin
Instructor in Piano and Ensemble Playing

Alfred George Wathall
Instructor in Violin and Theory

William Alfred White
Director of the Public School Music Department
Instructor in Sight-Reading, Choral Music and Public School Music Methods

Walter Allen Stults
Instructor in Voice Culture

Lura Mary Bailey
Instructor in Piano and Ensemble Playing

Hedwig Brenneman
Instructor in Voice Culture

Odile Marie Goddard
Instructor in Organ

Elias Arnold Bredin
Instructor in Church Music

Myrtle Hatswell-Bowman
Instructor in Voice Culture

Charles Joseph King
Instructor in Clarinet, Oboe, and Bassoon

Walfried Singer
Instructor in Harp

Charles Stephen Horn
Instructor in Cornet

Elizabeth Liddell Shotwell, A.B.
Assistant Instructor in Piano

Janet Maureen Hanna
Assistant Instructor in Piano

Sheldon Burnham Foote
Assistant Instructor in Theory

Charles Macaulay Stuart, A.M., D.D., LL.D.
Lecturer on Hymnology

Admission and Instruction

Students entering the School of Music do so either as Regular or Special students. In the former case, they pursue prescribed courses of study, and become candidates for a certificate or diploma. As special students, they pursue such work as they may elect.

Instruction in instrumental and vocal music is based upon private lessons, and not upon the so-called "conservatory" or "class" system. Artistic results are dependent upon a close adaptation to the individual needs of the pupils, and cannot be satisfactorily accomplished in classes. No two students have the same mental, physical, or artistic capacity, and their individual capabilities can be neither properly nor fully developed without painstaking personal attention. The only real advantages of the class system—those of emulation and observation—are fully provided for by the system of weekly solo classes.

The regular courses are based upon the desirable elements of a complete musical education. It is necessary that the musician be other than a mere performer; that he have an intelligent conception of the material of music, a firm grasp of fundamental artistic principles, and a well defined and discriminating taste. All students giving the larger portion of their time to music are strongly urged to take the full work. Students so doing receive the benefit of more favorable conditions, both in tuition fees and instruction.

These courses include both the theoretical and practical study of the art and require a certain degree of advancement in general education.

For the course in Applied Music moderate attainments representing on an average one year of systematic training in singing or two or three years in instrumental music are necessary.

Courses

The following courses are offered:

I. Course in Applied Music, leading to the Degree of Graduate in Music.
II. Course in Theory and History of Music, leading to the Degree of Bachelor of Music.
III. Post Graduate Course.
IV. Literary Musical Course.
V. Course in Public and High School Music Methods.
VI. Normal Course in Piano Methods.

I. Course in Applied Music

By "Applied Music" is meant the practical study of piano, organ, violin or voice, in private, individual lessons. It includes also certain theoretical subjects scheduled below, which are given in classes. The course is designed to equip candidates for professional work, and can be completed in four years by students of decided ability who come well prepared.

Candidates, who, upon entrance or at any subsequent period, can prove their ability to matriculate in the College of Liberal Arts, will be given the Diploma of the University conferring the degree of Graduate in Music upon satisfactory completion of the course. Opportunity is given to make up any reasonable deficiency in College entrance requirements, in the Academy of the University, without extra expense. Matriculation once effected permits the candidate to pursue each year one College subject during the music course without extra fee. Candidates registering for such subjects, however, will not be permitted to drop their work except at the end of a semester.

Candidates not desiring or unable to complete the studies necessary for matriculation in the College of Liberal Arts may confine their work to the purely musical studies scheduled below, and upon satisfactory completion of the same will be granted the School of Music Diploma of Musical Proficiency. Such students may carry one literary study in the Academy during the course without extra fee.

A student completing the second or third year work may obtain a School of Music certificate stating his grades in the various theoretical studies, and if desired, it will include a statement as to the character and degree of attainment in applied music. Certificates are no longer the subject of formal public presentation.

All candidates are required to pursue their work according to the following schedule:

SCHEDULE OF STUDIES, COURSE I

First Year

Introductory Harmony Form and Analysis A
Ear-training and Dictation AA
History of Music B
Solfeggio C
Ensemble, four and eight-hand piano playing
Solo Classes, Recitals and Concerts
Applied Music, two half-hour lessons per week
College or Academy Study, optional
Physical Culture, optional

Second Year

Harmony D
Ear-training and Dictation DD
Form and Analysis E
History of Music F
Chorus and Choir Training G, for vocal and organ students. Optional to piano students
Ensemble, pianoforte and strings, and Accompaniment
Solo Classes, Recitals and Concerts
Applied Music, two half-hour lessons per week
College or Academy Study, optional
Physical Culture, optional

Third Year

Counterpoint H
Advanced Harmony I
Composition J
Advanced History of Music K
Analysis L
Ear-training and Dictation LL
Ensemble, pianoforte and strings, and Accompaniment
Solo Classes, Recitals and Concerts
Applied Music, two half-hour lessons per week
College or Academy Study, optional
Physical Culture, optional

Fourth Year

Counterpoint, Canon and Fugue M
Vocal Composition N
Instrumental Composition O
Analysis P
Ear-training and Dictation PP
Normal Piano Methods W, for piano students
Ensemble, chamber music
Solo Classes, Recitals and Concerts
Applied Music, two half-hour lessons per week
College or Academy Study, optional
Physical Culture, optional

For hours of recitations and details of studies in Classes A to W, see pages 350 to 355.

Two private lessons a week are required of all students in this course, except organ students.

The candidate for a diploma upon the satisfactory completion of the theoretical studies of the four years' course in applied music must satisfactorily perform programs conforming to the following schedule:

Piano Students—A concerto or chamber-music of advanced difficulty; one of the later Beethoven sonatas; one of the more important works of Bach; two Chopin ètudes; selections from the more important works of Schumann and Brahms.

Organ Students—One of the great preludes and fugues of Bach; a sonata of Guilmant or Rheinberger; selections from the works of Thiele, Widor, Merkel, or Franck.

Violin Students—A Bach sonata; a concerto of advanced difficulty; a modern sonata for piano and violin; selections from the more important works of Vieuxtemps and Wieniawski.

Vocal Students—An operatic aria; an aria from Handel's Messiah or Haydn's Creation; an aria from a modern oratorio; group of songs from Brahms, Jensen, Schumann, Schubert, or Franz.

II. Course in Theory and History of Music

This course is intended for composers and theorists. It requires four years' work, and leads to the degree of Bachelor of Music. The candidate for admission should be fairly experienced at the piano, and be able to play all exercises and compositions which are taken up in class work, including score reading.

In addition to pursuing satisfactorily the studies outlined in the schedule below, the candidate before graduation must receive one-fourth of the total number of credits in the College of Liberal Arts necessary for the degree of Bachelor of Arts, one subject of which must be General Physics.

Before completing his studies, he is required to score for full orchestra a composition assigned to him by the faculty, such as a movement from a piano sonata by Beethoven, or he may compose and score an original work of considerable length. This must be satisfactory in both its technical and artistic aspects, and must demonstrate a decided command of orchestral resources and effects.

The successful pursuit of this course necessitates therefore constant attendance upon choral and orchestral concerts, and the diligent study of the full score of standard works.

Upon the completion of three years of this course a certificate is issued by the University.

SCHEDULE OF STUDIES, COURSE II

First Year

Harmony D
Ear-training and Dictation DD
Form and Analysis E
History of Music B and F
Chorus and Choir-Training G
College Study
Ensemble, optional
Physical Culture, optional

Second Year

Counterpoint H
Advanced Harmony I
Composition J
History of Music K
Analysis L
Ear-training and Dictation LL
College Study
Ensemble, optional
Physical Culture, optional

Third Year

Counterpoint, Canon and Fugue M
Vocal Composition N
Instrumental Composition O
Analysis P
Ear-training and Dictation PP
College Study
Ensemble, optional
Physical Culture, optional

Fourth Year

Canon and Fugue Q
Vocal Composition R
Instrumental Composition S
College Study
Ensemble, optional
Physical Culture, optional

For hours of recitation and details of studies in Classes D to S, see pages 351 to 354.

III. Post-Graduate Course

Graduates in Course I are given a broad basis of general musicianship as well as a thorough grounding for professional work either as performers, theorists or teachers.

If the goal of the student be public performance, the school supplies every facility for attaining this end. With the elimination of theoretical studies ample time is available for the close application necessary for the highest artistic results.

In composition, the graduate from Course II will be carried into the larger forms such as chamber-music, overtures, symphonies, cantatas, oratorios and operas.

IV. Literary Musical Course

This course is intended for students of high school age, and includes the more essential subjects necessary for general culture, and permits the study of music for two hours daily. It consists of the

four-year course in Evanston Academy, in which the study of Music is substituted for one-fourth of the required work. The studies include Latin, algebra, English, history, Greek, biology, plane geometry, physics, German and French. Music is to be continuously and satisfactorily pursued during the entire course, with two lessons a week, and at least two hours a day devoted to its study. The student is under the jurisdiction of the Academy, and receives its diploma upon passing the necessary examinations. For particulars, other than musical, see circular of Evanston Academy.

V. Course in Public and High School Music Methods

Beginning with the year 1911-1912, this course was enlarged to cover two years of work instead of one year as formerly. It has been greatly expanded in scope, and is designed to fit the candidate thoroughly for the position of Supervisor of Music in the public and high schools. To enter, it is necessary that the student be familiar with the rudiments of music, including time combinations and scale building, both major and minor, and to sing at sight simple melodies. In addition to the specified class work, opportunity is afforded for giving instruction to children at the Northwestern University Settlement in Chicago. Upon the satisfactory completion of the course, a diploma is granted.

The study of music is assuming more and more importance in public and high schools throughout the country, and well-equipped teachers and supervisors are in demand. The ability to teach one or two other branches besides music will frequently improve the candidate's chances of obtaining a position, and of securing higher remuneration. A high school education or its equivalent is necessary to secure a desirable position. As an organic part of the University, the School of Music is prepared to offer peculiar advantages in this course, as all the resources of the University are at the command of the student.

While the University does not offer courses in Public School Drawing, the schedule of studies in the Public School course is so arranged that students may attend the Saturday morning classes in drawing at the Art Institute of Chicago, one of the best schools of art in the country. These classes are especially intended to fit students for teaching elementary drawing in the public schools. For fees and hours, address the Art Institute of Chicago, Michigan Avenue and Adams Street, Chicago.

SCHEDULE OF STUDIES, COURSE V

First Year

Introductory Harmony, Form and Analysis A
Ear-training and Dictation AA
History of Music B
Solfeggio C
Public School Methods T
English in either the College of Liberal Arts or Academy
Private Lessons in Voice or Piano
Rehearsals of Evanston Musical Club and North Shore Festival
Physical Culture, optional

Second Year

Harmony D
Ear-training and Dictation DD
Form and Analysis E
History of Music F
Chorus and Choir-Training G
High School Methods U
Psychology and Pedagogy V
College or Academy Study
Rehearsals of Evanston Musical Club and North Shore Festival
Private Lessons in Voice or Piano
Physical Culture, optional

For hours of recitations and details of studies in Classes A to V, see pages 350 to 355.

VI. Normal Course in Piano Methods

This course is designed for those intending to teach piano. It is two years in length, and with the exception of Class W, is identical with the first two years of Course I. Upon its satisfactory completion a certificate in Normal Piano Methods is granted.

The average piano student upon graduation from a school of music has studied and performed one or two concertos, a number of sonatas, works of Bach, and standard compositions by the better composers. He can creditably, and sometimes brilliantly, play the more important piano compositions; but when he begins to teach he is at loss what to do, because he has not learned how to instruct.

It is the object of the Normal Course in Piano Methods to give these inexperienced teachers a definite working plan, applicable to

pupils of any age or any stage of advancement, and a varied and practical teaching repertory.

Class W of this course is divided into many sections of six or eight students each, meeting weekly in one-hour sessions, thus enabling each student to come into close touch with the instructor. It requires one full year of thirty-six consecutive weeks. It will comprise an orderly survey of the materials of music education with special reference to piano playing, from the rudiments to an advanced stage of attainment. Table-work and finger-play, in the form of games for the purely physical and gymnastic development of the child, are discussed. The class examines a great amount of easiest piano literature, and a thorough study is also made of a large and varied assortment of teaching material of the more advanced grade, including instruction books, sonatine and sonata literature. Attendance upon the Children's Demonstration Classes of the Preparatory Department is obligatory. The student is required to keep a note book, and will be examined at the end of each semester.

Each student will be required to do some elementary teaching under the instructor's supervision either at the School of Music or at the Northwestern University Settlement in Chicago, the music department of which is under the supervision of the School of Music.

SCHEDULE OF STUDIES, COURSE VI

First Year

Introductory Harmony, Form and Analysis A
Ear-training and Dictation AA
History of Music B
Solfeggio C
Ensemble, four and eight-hand piano playing
Solo Classes, Recitals and Concerts
Applied Music, two half-hour lessons per week
College or Academy Study, optional
Physical Culture, optional

Second Year

Harmony D
Ear-training and Dictation DD
Form and Analysis E
History of Music F
Chorus and Choir Training G, optional
Normal Piano Methods W

Ensemble, pianoforte and strings, and Accompaniment
Solo Classes, Recitals and Concerts
Applied Music, two half-hour lessons per week
College or Academy Study, optional
Physical Culture, optional

For hours of recitations and details of studies in Classes A to W, see pages 350 to 355.

SCHEDULE OF THEORETICAL CLASSES

The following studies, which are referred to in the foregoing description of courses, are required studies therein. With the exception of A, AA, C, DD, G, LL, PP, and W, they are also electives in the College of Liberal Arts, the maximum credit allowed being twenty semester hours. The above excepted classes are open to College students, but bear no College credit. A and C must be satisfactorily completed, or their equivalent, before subsequent work in the same subjects may be taken.

A—Introductory Harmony, Form and Analysis Mr. Dodge

Scale and melody writing. Construction of the period. Intervals and two-part writing. Chord-reading. Small two-part primary forms. Triads, inversions, chord-connection in three and four parts, cadences, modulations, dominant sept-chord. Monday, Wednesday, Friday, 3; Tuesday and Thursday, 3; Saturday, 9:00. Text-book, "Harmony and Ear Training," by W. A. White.

AA—Ear Training and Dictation Mr. White

Melodic and rhythmic dictation within the key. Triads in all forms. Identification of same in key-relation to the major and minor modes. The same, with dominant sept-chords. Dominant sept-chords and chords of the ninth with regular resolutions. The same with irregular resolutions. Tones foreign to the harmony. Tuesday, Friday, 11 to 11:30.

B—History of Music Mr. Garwood

A general survey of musical history. Gregorian chant. Early canons and folk-songs. Drill in pronunciation of names. Illustrations of later periods by Instructor and members of the class. Myer's General History (revised edition) for cultural conditions. Tests at close of first and third quarters. Written examinations at close of each semester. Text-books, "Outlines of Musical History," by Clarence G. Hamilton. Thursday, 2 and 3.

C—Solfeggio Mr. White

All students, whether vocal or instrumental, are required to take this work. It embraces drill in scale and interval singing, time subdivisions and part-singing. The class is divided into three graduated sections based upon the varying abilities of the students, and students are passed from one grade to another upon sufficient tests. At the discretion of the instructor, the student may be required to review the work in whole or in part.

C 1—Beginners, Monday, Thursday, 4 to 5.

C 2—Intermediate, Monday, Thursday, 12 to 12:30.

C 3—Advanced, Tuesday, Thursday, 3:30 to 4.

Text-books, "Melodia" and "Harmonia," by Cole and Lewis.

D—Harmony Professor Lutkin

Figured basses and harmonization of melodies, employing the use of triads, dominant, diminished, and supertonic sept-chords, with inversions, in dispersed harmony. Secondary sept-chords and chords of the ninth. Suspensions and tones foreign to the harmony. Organpoint, modulation, etc. Text-books, "Harmony," by G. W. Chadwick. Monday, Thursday, 11.

DD—Ear-Training and Dictation Mr. White

Continuation of work in Class AA in all departments. Melodic dictation in two parts within the confines of the key. Identification of the various sept-chords. Chromatic tones. Modulations to near-related keys. Resolutions and progressions of the diminished and secondary sept-chords in both major and minor modes. Melodic dictation in simple three-part harmony. Inversions of the diminished and secondary sept-chords, with resolutions strict and free. Dictation in three melodic parts, with chromatic passing-tones, transitions and modulations. Chordal modulations to more remote keys. Tone color. Tuesday, Friday, 10:30 to 11. Tuesday, Friday, 12 to 12:30.

E—Form and Analysis Professor Lutkin

Chord-reading. Bach's inventions. Primary forms, principally from Mendelssohn and Chopin. Song or aria form. Minuets, marches, scherzos, rondos, theme and variations, the sonata form. Sonatas as a whole. Preludes and fugues. Tuesday, Friday, 11.

F—History of Music Mr. Garwood

First Semester—The age of Bach and Handel. The chorale, cantata and passion music. Digression to Latin Church music. Oratorio. Development of keyed instruments, and orchestral be-

ginnings. Growth of form. Development of operatic conventions. State of music in Italy, France, Germany and England at close of period. Text-book, "History of Music," by Waldo S. Pratt.

Second Semester—The Viennese Period. Musical composition from the time of C. P. E. Bach to that of Schubert. General condition of taste in the 18th century. Literary backgrounds. Gluck and operatic reforms. Opera from Mozart to Weber. Instrumental forms of C. P. E. Bach, Haydn, Mozart, Beethoven and Schubert. Development of song. Monday, 2 and 3.

G—Chorus and Choir Training Professor Lutkin

This class is primarily for vocal and organ students, but is open to others. Its purpose is to give both organists and choir singers a practical routine in church music. It will include the study of hymns, chanting, canticles, anthems, sacred cantatas and the choral service of the Episcopal church. Thursday, 4. At Fisk Hall. First semester only.

H—Counterpoint Professor Lutkin

Counterpoint in the various species in two, three, and four parts. Tuesday, Friday, 10.

I—Advanced Harmony

Harmonization of chorales; remote modulations; unprepared and unresolved dissonances. Text-book, Foote and Spalding's "Modern Harmony." Wednesday, 10.

J—Composition Professor Oldberg

Primary forms, including the minuet, scherzo, march, etc. Simple and elaborate accompaniments. Score-reading, including viola clef. Monday, Wednesday, 3 to 4, or Tuesday, Thursday, 3 to 4.

K—History of Music Mr. Garwood

First Semester—The romantic period. Influence of the 19th century literature upon musical development. German opera, from Weber to Schumann. Italian opera from Rossini to Verdi. Opera at Paris from Auber to Meyerbeer and Berlioz. Modern and contemporary instrumental forms. The symphonic poem. Text-book, "History of Music," by Waldo S. Pratt. Topics from Vol. V, Oxford History of Music, School Library. Thesis at end of semester.

Second Semester—Class study of Wagner music drama and literature, German and Norse mythology and legend. Selections

from Malory's "Morte d'Arthur" (Tristan and Isolde), Magnusson and Morris' "Volsunga Saga," "Sigurd the Volsung," by William Morris; "The Nibelungenlied," translated by Lettson. Playing of score and leitmotiven. Thesis at end of year. Monday, 11.

L—Analysis Professor Lutkin

Bach's well-tempered clavichord. Beethoven's sonatas. Brahm's pianoforte works. Concertos. Wednesday, 11.

LL—Ear-Training and Dictation Mr. White

Continuation of the work of Class DD. Four-part melodic dictation, strict and free, with transitions and modulations to close and remote keys. Augmented sixth-chords and resolutions. Passing-tones, passing-keys, alternating-tones, appogiaturas, suspensions, anticipations. Mental modulation and transposition. Monday, Thursday, 9:30 to 10.

M—Couterpoint, Canon, and Fugue Professor Lutkin

Counterpoint in five or more parts. Double and triple counterpoint. Canons in the various intervals. Tuesday, 9.

N—Vocal Composition Professor Lutkin

Exercises in the application of rhythms and forms to verse. Songs, duets, trios, quartettes, and part-songs. The anthem and the unaccompanied motette. The canticles and communion service of the Episcopal church. Monday, Thursday, 10.

O—Instrumental Composition Professor Oldberg

Song or aria forms. The various sonata movements. Compositions for piano and strings, and for small orchestra. Monday, Wednesday, 2, or Tuesday, Thursday, 2.

P—Analysis Professor Lutkin

Chamber music. Plain-Song, Greek modes, etc. Organ compositions. Church cantatas. Oratorios and symphonies. Orchestral music from full score. Friday, 9.

PP—Ear-Training and Dictation Mr. White

Harmonization of melodies at the key-board, including transposition to all keys. Key-board modulation by all possible means, by triads and augmented sixth-chords, and by common tones from each key to every other key. Simple improvisations. Not given in 1911-1912.

Q—Canon and Fugue Professor Lutkin

Canons by inversion, augmentation, diminution, etc. Fugues in three or more parts. Double fugues. Hours to be arranged.

R—Vocal Composition Professor Lutkin

The Cantata, with piano and orchestral accompaniment. Fugal and double choruses. The oratorio and the mass. Tuesday, 2 to 4.

S—Instrumental Composition Professor Oldberg

The sonata form in piano and chamber music. The overture and symphony for full orchestra. Wednesday, 8:30 to 10:30.

T—Public School Methods Mr. White

Purpose of Public School Music. Correct position of body; breathing exercises. The child voice—care and development. Voice-placing and training. Relation between speaking and singing voice. How to help monotones. Elements of notation. Use of pitch-pipe. General directions for daily use. Ear-training. Interval drill. Vocalises. Devices. Rhythm. Beating time. Sight-reading. Tone-thinking. Visualizing. Individual singing. Melody and verse-writing. Dictation and manuscript exercises. Rote songs—how to teach. Song interpretation. Part-singing—how to get the best results. Organization of work throughout grades. Order of lessons. Music systems—principles underlying. The art of conducting. Use of baton. Directing of choral music. Seating of chorus or class. The song element—primary, intermediate, high school. Relation of supervisor to superintendent and grade teacher. Teachers' meetings. Discipline. Programs for Commencement. Tuesday, Friday, 2.

TT—Public School Methods, Extension Work Mr. White

Purpose of public school music. The teaching of rote songs. The child voice—care and development. The elements of notation, and reaching of same. Interval drill. Ear-training. Rhythm. Time-beating. Sight-reading. Dictation. Song-interpretation. Part-singing. Organization of music plans throughout the entire eight grades. Order of lessons. Use of baton. The bookwork of this course is based directly on the material and books used in the Chicago public schools, and will have direct relation with, and be direct preparation for that music work. In other respects the work will be similar to the methods course in the regular work at Evanston. Saturday, 10:30 to 11:30, in lecture room 401, Northwestern University Building, corner of Lake and Dearborn Streets, Chicago.

U—High School Methods Mr. White

High school chorus conducting. Management of high school orchestras, including the orchestral instruments, the transposing instruments, arranging and scoring of choruses for orchestra. Outline of harmony courses suitable for high school. Tuesday, Friday, 4. Given in the second semester only.

V—Psychology and Pedagogy Mr. White

Relation of psychology and pedagogy to general education, with particular application to musical education. Text-books, "General Psychology," by R. P. Halleck; "Basis of Practical Education," by E. W. Bryan. Tuesday, Friday, 4. First semester only.

W—Normal Piano Methods Mrs. Haake

Ear-training, rhythm, and time-values. Notation. Sight-reading. Scale-building. Circle of fifths and signatures. Melody-writing. Technic. Games. Phrasing. Use of pedal. Dynamics. Ornamentations. Teaching materials. Questions and answers each lesson. Class work one hour a week. Practical teaching additional. Hours to be arranged.

Chicago Department

Courses in theoretical music are offered at the Northwestern University Building, corner of Lake and Dearborn Streets, Chicago, which in scope and content are identical with similarly designated courses given at Evanston. In the present year three courses, A, D and TT, are offered.

Course A is given Wednesday at 4:30 and Saturday at 9:30. Course D is given Wednesday at 5:30 and Saturday at 11:30. Course TT is given Saturday at 10:30.

Courses A, D and TT bear credit in the School of Music toward the degrees of Graduate in Music and Bachelor of Music, and toward a diploma for Public School Music Methods. Course TT bears credit in the College of Liberal Arts of Northwestern University of two semester hours, Course D of four semester hours, while Course A bears none.

The Chicago Board of Education will grant one credit toward its Extension Work for 36 hours of actual recitation time in Courses A, D, or TT. Thus a teacher in the public schools may secure for Courses A and TT two semester hours of College credit, and three credit points in Extension Work, for Courses D and TT, six sem-

ester hours of College credit and three credit points in Extension Work. For fees, see page 361.

Preparatory Department

A Preparatory Department is maintained by the School of Music in which excellent instruction may be obtained in piano, organ, voice, or theory at moderate rates. Instruction is given for the most part by graduates and under-graduates of the school, classified as Assistant Instructors. The quarters coincide with those of the regular school and are nine weeks in length. For detailed information send for special bulletin.

Diplomas and Certificates

Upon the recommendation of the Faculty, diplomas are given to students who complete the Course in Applied Music, the Course in Theory and History of Music; or the Course in Methods of Public School Music, and certificates to those completing the Normal Course in Piano Methods, or the second or third years of the Course in Applied Music.

CERTIFICATE OF PERFORMANCE

Certificates of performance are given to students who have studied two years in the school and can perform creditably a program in their specialty. The minimum requirements are as follows:

Piano Students—Beethoven, a complete sonata; Bach, a fugue or three-voiced invention; Mendelssohn, Schumann, Chopin, characteristic pieces of average difficulty; two selections from modern composers.

Organ Students—Bach prelude and fugue; Mendelssohn, sonata complete; two groups of pieces drawn from the modern English and French schools.

Violin Students—A sonata for piano and violin from Haydn, Mozart, or Beethoven; one of the easier Viotti concertos; two groups of solo pieces of average difficulty.

Vocal Students—An oratorio aria; a group of songs from the classic composers; a group of songs from modern composers.

Fees and Expenses

All fees are for the year 1911-1912 and are subject to change in subsequent years. Revised rates are given each year in advance in the July catalogue of the School of Music, to be had upon request.

The school year is divided into four quarters of nine weeks each, and the indicated fees, unless otherwise stated, are payable each quarter strictly in advance at the University office, 518 Davis Street, Evanston. Checks may be drawn payable to Northwestern University.

Matriculation Fee—A matriculation fee of five dollars is charged upon entering the regular courses of theoretical classes. It is paid but once.

Incidental Fee—A fee of fifty cents a quarter is charged each student. This fee covers admission to the Artists' Series of Concerts.

Musical Club Fees—Active membership in the Evanston Musical Club is three dollars a year. Students in regular courses are required to attend the concerts of the Club and are charged fifty cents in the first, second and third quarters for admission to these concerts, with reserved seat. Students who are active members of the Club are exempt from this charge.

Diploma and Certificate Fees—The diploma fee is ten dollars. The certificate fee is five dollars.

Locker Fee—A fee of twenty-five cents a quarter is charged those desiring the use of a locker.

Free Courses—The classes in Solfeggio, the Chamber Music and Faculty Concerts, except the Artists' Series, numerous recitals and lectures in the School of Music and others in departments of the University, are open to students of the School of Music, free of charge.

COURSE FEES

I. *Course in Applied Music*—A theory fee of twenty-two dollars and fifty cents is charged in the first and second years, and twenty-five dollars in the third and fourth years, plus the fee for one major study as given in the table below.

II. *Course in Theory and History of Music*—The fee is twenty-two dollars and fifty cents for the first year students, and twenty-five dollars for second, third and fourth year students.

III. *Post-Graduate Course*—Same as Special Student Fees.

IV. *Literary Musical Course*—The fee is the academy tuition fee of eighty-four dollars a year, in addition to fees for Special Students in the School of Music, less five dollars a quarter.

V. *Course in Public and High School Music Methods*—A theory fee of thirty-two dollars and fifty cents is charged, plus fees for private lessons in voice or piano. To students regularly registered in the course in Applied Music, the course in Theory and History of Music, or the course in Normal Piano Methods the fee is ten dollars a quarter. In voice or piano, two lessons a week in one study may be taken from the Major Study Fees in the table below. An additional study, or one lesson a week in the single study, if such be desired, will be taken from Special Student Fees, pages 359 and 360. If Classes, T, first year, with U and V, second year, be taken simultaneously, the Theory fee will be forty-two dollars and fifty cents instead of thirty-two dollars and fifty cents.

VI. *Normal Course in Piano Methods*—A theory fee of twenty-two dollars and fifty cents a quarter in the first year, and twenty-seven dollars and fifty cents in the second year, plus the fee for one major study as given in the table below.

Additional Fees—Students desiring to take more than one College study are referred to the statements of fees on page 189 of this Catalogue.

MAJOR STUDY FEES

The fees for major studies are given in the following table. They are applicable to one study of students paying the full Theory Fee of any of the above regular courses. Additional studies are taken from the table of Special Student Fees. The rates apply for a quarter of nine weeks; the lessons are a half-hour in length.

Organ

Private Lessons Each Week	One	Two
Peter C. Lutkin (Special Organ rate, see page 15)	$25.00	
Odile M. Goddard		$25.00
Odile M. Goddard (Special Organ rate, see page 15)	15.00	

Piano

Arne Oldberg	45.00
Victor Garwood	35.00
Margaret Cameron	28.00
Hila V. Knapp	28.00
Louis N. Dodge	25.00
Charles J. Haake	25.00
Nina S. Knapp	22.00
Nellie B. Flodin	22.00
Gail M. Haake	22.00
Lura M. Bailey	16.00

Voice

G. A. Grant-Schaefer	50.00
Alta D. Miller	35.00
Walter A. Stults	28.00
William H. Knapp	25.00
Myrtle Hatswell-Bowman	22.00
Hedwig Brenneman	16.00

Violin

Harold E. Knapp	30.00
Alfred G. Wathall	20.00

Violoncello

Day Williams	22.00

Theory

Arne Oldberg	45.00
Louis N. Dodge	25.00

FEES FOR SPECIAL STUDENTS

These fees are paid for private lessons by students who take vocal or instrumental music only, or a partial course in theory, or the full theory course under certain conditions already mentioned. The rates are for a quarter of nine weeks; the lessons are a half-hour in length.

Organ

Private Lessons Each Week	One	Two
Peter C. Lutkin	$30.00	$54.00
Odile M. Goddard	15.00	27.00

Piano

Arne Oldberg	30.00	54.00
Victor Garwood	25.00	45.00
Margaret Cameron	20.00	36.00
Hila V. Knapp	20.00	36.00
Louis N. Dodge	17.00	31.50
Charles J. Haake	17.00	31.50
Nina S. Knapp	15.00	27.00
Nellie B. Flodin	15.00	27.00
Gail M. Haake	15.00	27.00
Lura M. Bailey	11.00	20.00
Elizabeth L. Shotwell	10.00	18.00
Janet M. Hanna	9.00	16.00

Voice

G. A. Grant-Schaefer	33.00	60.00
Alta D. Miller	25.00	45.00
Walter Allen Stults	20.00	36.00
William H. Knapp	17.00	31.50
Myrtle Hatswell-Bowman	15.00	27.00
Hedwig Brenneman	11.00	20.00

Violin

Harold E. Knapp	22.00	40.00
Alfred G. Wathall	13.50	25.00

Theory

Arne Oldberg	30.00	54.00
Louis N. Dodge	17.00	31.50

Violoncello

Day Williams	15.00	27.00

Clarinet

Charles J. King	10.00	18.00

Cornet

Charles S. Horn	10.00	18.00

Harp

Walfried Singer	20.00	36.00

FEES FOR PARTIAL COURSES

One hour a week (Classes AA, B, DD, F, G, I, K, L, LL, M, P)	$ 5.00
Two hours a week (Classes D, E, H, J, N, O, R, S)	8.00
Three hours a week (Class A)	11.00
Class C (free to those taking other work)	1.50
Class T	10.00
Class U	10.00
Class V	10.00
Class W	5.00
Instrumental Ensemble (first year)	5.00
Instrumental Ensemble (second, third and fourth year)	10.00
Physical Culture (free to students in regular courses)	2.50
Children's Classes, one hour weekly	5.00

The above rates apply to students taking a partial theory course and who do not wish to pay the full Theory Fee mentioned under Course Fees. Detailed information regarding the above classes A to W is given on pages 350 to 355.

PRACTICE FEES

Piano Practice:

One hour a day	$ 3.00
Two hours a day	5.50
Three hours a day	8.00
Four hours a day	10.00

Three-manual Pipe Organ (including blowing) 30 cents an hour.

Two-manual Pipe Organ (including blowing) each hour of daily practice, per quarter	10.00
Pedal Piano, each hour of daily practice, a quarter	5.00
Combination rate for two-manual pipe organ and pedal piano, each hour of daily practice, a quarter	7.50

CHICAGO DEPARTMENT

Class TT, one hour a week	$ 5.00
Class A or D, two hours a week	8.00
Class A or D with Class TT, three hours a week	11.00

REFUNDS

Private lessons falling upon legal holidays are made up at the convenience of the teacher. Deductions are not made for occasional

absences due to illness or other causes. If due notice be given of the necessity for protracted absence on account of sickness, private lessons missed after such due notice is received will be transferred to a later quarter, or the loss divided with the student. Absences prior to such notice cannot receive this consideration.

One-half the fee for class lessons or practice is refunded to a student who withdraws before the middle of a quarter, provided he secures from the Dean a statement of honorable standing, and from a physician a certificate that his health does not permit him to remain in attendance.

A discount of twenty-five per cent on private lessons is allowed to the immediate members of the family of a clergyman who is actively engaged in the work of the ministry. It is not allowed on class instruction or practice.

For further information and for special circulars relating to the School of Music, address the Secretary, Northwestern University School of Music, Evanston, Illinois.

The School of Commerce

The School of Commerce

THE SCHOOL OF COMMERCE was organized in June, 1908, through the co-operation of Northwestern University with sixty business men,—members of the Chicago Association of Commerce, the Illinois Society of Certified Public Accountants and of the Industrial Club of Chicago who, organized as a Board of Guarantors, assumed financial responsibility for the School for three years. The co-operation of these men with the University in founding the School of Commerce was brought about largely through the efforts of Mr. Joseph Schaffner.

The School is a recognition of the rapidly developing professional standards in modern business, and of the need for thoroughly trained men to meet the problems which business complexity and specialization produce. It emphasizes the need for high grade professional service and aims to develop the qualities of mind and spirit which the public is demanding from leaders of business enterprise.

The material offered by business activities of city and nation constitutes the laboratory of business education; the work of systematizing and reducing this material to teachable form is the special task of the University. The work now being done by associations of commerce and other business organizations is constantly making commercial data more available. By developing its opportunities for laboratory study of this kind, the School may expect to become a clearing house for scientific business information.

In enlarging its curriculum it is the policy of the School to add new subjects as rapidly as information is reduced to scientific and teachable form.

Northwestern University, with a building in the heart of the business district of Chicago, offers exceptional opportunities for carrying out a program of this sort. Its situation brings the School within easy reach both of prospective students and of facilities for study, and membership in the University guarantees breadth of view and scientific ideals. The combination of practical training and broad culture is insured by a supervising body made up both of business men and educators. The success of the first three years has demonstrated that there is a large field for the work of the School and gives assurance of a broader scope of usefulness in the future.

Abram Winegardner Harris, Sc.D., LL.D.
President of the University

Willard Eugene Hotchkiss, A.M., Ph.D.
Dean and Professor of Economic and Social Science

Seymour Walton, A.B., C.P.A.
Professor of Theory and Practice of Accounting

Walter Dill Scott, Ph.D.
Professor of Advertising

Murray Shipley Wildman, Ph.D.
Professor of Economics and Commerce

Earl Dean Howard, A.M., Ph.D.
Assistant Professor of Banking and Finance

Alfred William Bays, B.S., LL.B.
Assistant Professor of Commercial Law

Frederick Shipp Deibler, Ph.D.
Assistant Professor of Economics

William Dunton Kerr, A.B., LL.B.
Instructor in Transportation

Guy Van Schaick, B.L., J.B.
Instructor in Commercial Spanish and Commercial French

Arthur Emil Swanson, Ph.D.
Instructor in Economics and Business Organization

Arthur Edward Andersen, C.P.A.
Lecturer in Accounting

Charles Heinrichs Langer, C.P.A.
Lecturer in Accounting

Walter Kay Smart, A.B., Ph.D.
Lecturer in Business English

Walter Sheldon Tower, Ph.D.
Lecturer in Resources and Trade

Neva Olive Lesley
Secretary

BOARD OF GUARANTORS

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Charles S. Ludlam
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L. Wilbur Messer
E. M. Mills
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William Hinman Roberts
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John W. Scott
Elijah W. Sells
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Archibald Wilkinson Shaw
George W. Sheldon
Edward M. Skinner
Allen R. Smart
Mason B. Starring
Joseph E. Sterrett
Homer A. Stillwell
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Harry A. Wheeler
F. F. White
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T. Edward Wilder
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W. A. Winterburn
Arthur Young

EXECUTIVE COMMITTEE

John Alexander Cooper
Richard C. Hall
L. Wilbur Messer
William A. Dyche
J. Porter Joplin
Joseph Schaffner
Allen R. Smart

Admission and Instruction

Applicants for Admission to the School must be at least eighteen years of age and those under twenty-one years of age must be graduates of an approved high school. A candidate for a diploma is expected to have had the advantage of a complete high school training or its equivalent. Persons of suitable age and business experience, who are not in a position to register for the complete diploma course,

may register for any subject for which they are prepared. Admission to the several courses is determined by ability to pursue the work with profit.

Day Work

At the last meeting of the Board of Trustees provision was made for the degree of Bachelor of Business Administration, to be awarded to students who have completed two years of regular college work, plus three years' work in business administration. Provision is also made whereby students may continue work in college for three instead of two years and complete the combined requirements for the college degree and the degree in Business Administration in five years. The work leading to the degree in Business Administration will be inaugurated in September, 1912. A bulletin in which this work will be set forth in detail, will appear in the early spring.

Graduation and Diploma

The trustees of Northwestern University, on recommendation of the faculty of the School of Commerce, will grant a diploma to students who have satisfactorily completed an approved course of study normally requiring four evenings a week throughout three school years. For the convenience of those whose other duties will not permit them to carry four subjects a week, a four-year course of three evenings a week is recommended.

All candidates for a diploma or a degree in the School of Commerce must complete one year's work in the following subjects: Accounting, Commercial Law, Economics and Finance. In addition, one course to be designated by the faculty may be required of students in the last year of their work. The remaining subjects of the diploma course are elective. The required subjects are intended to equip the student with the fundamental principles applicable to business in general, after which he will adapt his course to the nature of the business he is preparing to pursue. The subjects outlined below indicate the range of work from which electives may be chosen. Additions and alterations will be made as experience may suggest.

Accounting

PROFESSOR WALTON, MR ANDERSEN, MR. LANGER

Accounting, First Principles—The evolution of bookkeeping from the elementary single entry system to modern and advanced double entry methods. The work consists of a graded set of practice books, covering various mercantile and manufacturing accounts, and includes the opening and closing of the books of individuals, partnerships and corporations, and the preparation of statements showing their various operating and financial conditions. Sufficient attention will be devoted to the fundamental principles of accounting to give students without previous experience an intelligent understanding of these principles. Monday and Friday evenings, 7-9. Mr. Langer.

Accounting, Intermediate—Principles and procedure of modern accounting; single proprietorship, partnership, corporation, realization, liquidation, receivers', executors', bank and other accounts; "Cost" accounts; the theory of accounts and auditing. A thorough knowledge of routine bookkeeping and elementary accounting is required. Monday and Friday evenings, 7-9. Mr. Andersen.

Accounting, Public Service Corporation—The application of Accounting principles to Public Service Corporations, i.e., steam railroad, telephone, telegraph, street railway, gas, water and electric light businesses. Plant costs, maintenance expenditures, depreciation of properties, control over income and expenditure, analysis of costs for determination of rates, preparation of financial statements and compilation of statistical data. Classifications of accounts prescribed by the Interstate Commerce Commission as regards railroads, and the Wisconsin, New York and other state commissions, as regards public utilities in general, are analyzed. Open to students who are thoroughly grounded in general accounting. Not given in 1911-1912. Mr. Andersen.

Accounting, Advanced—Scientific analysis of problems in practical accounting, theory and auditing; municipal, public utility and insurance accounts; the sub-divisions of manufacturing accounts. Students completing this course satisfactorily are prepared for the state examination leading to the degree of Certified Public Accountant. (See page 374.) Wednesday evenings, 7-9. Professor Walton.

Commercial Law

PROFESSOR BAYS

The subjects taught in Commercial Law are grouped into two courses, Commercial Law I and Commercial Law II. Commercial Law I is of a more general and basic nature, and it is usually advisable that this course be finished before the other course is attempted, though both are pursued concurrently with profit by many students.

Commercial Law I.—The law of Contracts, with especial reference to the contracts of daily business life; the law of commercial paper; the law of sales of goods; the law of bailments and carriers; the law of partnerships; the law of agency. Tuesday and Wednesday evenings, 7-9. Professor Bays.

Commercial Law II.—Real Estate Law; the law of trade marks and unfair competition in trade; the law of debtor and creditor, including bankruptcy; the law of corporations; the law of suretyship; the law of insurance. Friday evenings, 7-9. Professor Bays.

Business Organization and Economics

PROFESSOR HUTCHKISS, PROFESSOR WILDMAN, PROFESSOR SCOTT, PROFESSOR DEEBLER, PROFESSOR TOWER, MR. KERR, DR. SWANSON

Practical Economics—The adaptation of accepted economic theory to actual business; a study of the principles of value as manifested in economic activity and the application of these principles to specific business problems. Wednesday evenings, 7-9. Professor Wildman.

Business Organization and Management—A study of the principles involved in the organization and management of manufacturing, wholesale and retail establishments; factors in the localization and establishment of a business. Organization of Order, Purchase, Sales, Credit, and Collection departments. Study of departmental divisions of manufacturing and mercantile establishments, and devices employed for determining their comparative efficiency. The course is based largely on investigations of the methods employed in business establishments in Chicago. Experienced business men are invited to lecture on special topics. Thursday evenings, 7-9. Dr. Swanson.

Selling Policies and Methods—This course concerns itself with the examination of successful sales policies and a critical analysis of

selling methods for different classes of goods. It consists mainly of special lectures by advertisers and men connected with the selling departments of typical business establishments. First half-year. See also *Psychology of Business*. Monday evenings, 7-9. Dr. Swanson.

Psychology of Business, Advertising and Sales—An intensive study of the psychological principles having particular application to advertising. Methods of selling are analyzed and an attempt is made to understand some of the causes of failure and success so far as they are dependent upon the violation of or conformity to established laws of psychology. More attention is given to advertising than to other forms of salesmanship. Second half-year. See also *Selling Policies and Methods*. Monday evenings, 7-9. Professor Scott.

Resources and Foreign Trade of the United States—Comparison of the resources and leading industries of different countries; foreign countries as markets for American goods, as places for investment of American capital; trade conditions in South America and in the Far East; influence of shipping on foreign trade; organization of ocean commerce; tariffs and the development of international trade. Tuesday evenings, 7-9. Professor Tower.

Transportation Problems—The growth and important characteristics of the American railway system; the organization of a railroad company; railroad statistics; analysis of operating costs; accounting classifications prescribed by the Interstate Commerce Commission; the freight and passenger traffic departments; essential characteristics of rate structures; conditions leading to government regulations; the effect of unrestrained competition; unjust discrimination between individuals, localities and communities; the railroad problem; early legislative experiences; the act to regulate commerce; pooling; long and short haul section; influence of the Commission on commerce; discussion of present railroad problems. Friday evenings, 7-9. Mr. Kerr.

Economic Problems—Industrial conditions arising out of concentration of industry; development and preservation of resources; improved methods of production; industrial classes; standard of living; development of trade unions; influence of unions; business organization and the consolidation of capital; discussion of present economic conditions in business. Monday evenings, 7-9. Professor Deibler.

Public Relations of Business—Relations of large-scale organization to the city, the state, and the nation. Civic functions of civil

bodies, such as associations of commerce, commercial clubs, boards of trade; government regulation of industries; public service industries and their effect upon the business condition of the city; critical discussion of the object, efficiency, and general policy of public regulation. Not given in 1911-1912. Professor Hotchkiss.

Banking and Finance

PROFESSOR HOWARD AND PROFESSOR WILDMAN

Finance—Description of financial institutions, methods, and terms; principles of money; description of monetary and banking systems; function of banks; development of banking; currency legislation; relation of banks to speculation; credit; panics and financial crises. Thursday evenings, 7-9. Professor Howard.

Corporation Finance and Investments—The nature, organization, and promotion of the corporation; functions and power of the officers; methods of regulation; problems of capitalization; securities; management of capital funds and earnings; receiverships and reorganization. Causes of failure are studied with the purpose of discovering the factors which insure safety in corporation management. Consideration is given to investment problems; organization and management of stock exchanges, underwriting, brokerage, speculation, market movements. Babson's reports and Gibson's market letters are used. Stocks and bonds of railways, public service companies, municipalities and miscellaneous forms of investment; examination and interpretation of balance sheets and income accounts are studied from the investor's viewpoint. Thursday evenings, 7-9. Professor Wildman.

Languages

DR. SMART AND MR. VAN SCHAICK

English I.—A review of the essential elements of grammar and composition. Its object is to assist students to make up deficiencies in their fundamental language equipment and to lay foundation for further developing the power of written and oral expression. For all except those who have secured similar preparation elsewhere the course should precede English II. Tuesday evenings, 7-9. Dr. Smart.

English II.—A continuation of English I, but may be taken by anyone who has the required preparation. The first part of the course is devoted to the study of advanced sentence structure, para-

graphing, and organization of material, supplemented by practice in the writing of themes. The purpose is to train the student in the accurate and effective expression of ideas. Later in the course, the time is given up entirely to practical business correspondence. Wednesday evenings, 7-9. Dr. Smart.

Students may enter the English courses for the entire year, or for either semester.

Commercial Spanish—Training in pronunciation and conversation; appropriate stress on technical vocabulary of trade and on Spanish forms of commercial correspondence. Thorough drill in grammar and in the use of correct and idiomatic expression. The aim is to provide such a practical knowledge of modern Spanish as would prove of value in commercial relations with our insular possessions and the South American republics. Thursday evenings, 7-9. Mr. Van Schaick.

Commercial French—Practice and drill in French grammar and idioms. Training in pronunciation and conversation; exercises in composition, preparatory to the special study of commercial correspondence; discussion and reproduction of French business communications. Intended for those who desire a practical knowledge of the language for business purposes. Tuesday evenings, 7-9. Mr. Van Schaick.

Commercial German—Thorough drill in grammar and idioms; frequent exercises in conversation and in grammatical forms, accompanied by practice and criticism in commercial correspondence. Not given in 1911-1912.

General Statements

SPECIAL LECTURES

Members of the Board of Guarantors and other men prominent in business and professional life give, from time to time, general lectures to all the students in the School. The regular courses provide for frequent lectures by men who, from their experience, are able to speak authoritatively upon the practical side of subjects under discussion.

CREDIT IN OTHER SCHOOLS OF THE UNIVERSITY

Upon fulfillment of entrance requirements and payment of matriculation fee, students in the School of Commerce may be entered as

candidates for degrees in any School of the University. Upon vote of the Faculty of another School of the University, work in the School of Commerce may be credited toward fulfilling the requirements for a degree in that School if such work is along lines covered by the curriculum of said School.

CONSULAR SERVICE

The curriculum of the School of Commerce is not arranged specifically to meet the demands of consular examinations now in force, but individual courses offered in the School of Commerce, the College of Liberal Arts, and the Law School furnish the preparation required. A special course is contemplated for students who are preparing for the consular service.

DEGREE OF CERTIFIED PUBLIC ACCOUNTANT

By act of the General Assembly passed May 15, 1903, provision is made for a state examination for the degree of Certified Public Accountant. Business efficiency demands, moreover, that the professional accountant shall be a man of broad training and of recognized professional standing parallel to that of the lawyer and the physician. The close connection of the School of Commerce with the leading men of the profession enables it not only to meet the demands of the present law, but to set a high standard of professional training.

The attention of students in accounting is called to the law requiring a high school education for all applicants for this examination.

School of Commerce Library

Through the generosity of our friends among the business men of Chicago, it is possible to offer the students of the School of Commerce the facilities of a library equipped with all the more important texts and books of reference on the subjects covered in the work of the School. Rooms 417-419, occupied by the Library, are used in conjunction with the School of Pharmacy and are open from nine o'clock in the morning until seven in the evening every day except Saturday. After five o'clock each day a librarian is at the service of the students of the School of Commerce.

Library Scholarships

Free tuition is given to two students for service in the Library. These scholarships are awarded to students who have already been

registered in the School, on the basis of their previous record and the ability to undertake the limited amount of work required.

Prizes

THE JOSEPH SCHAFFNER PRIZE

A prize of one hundred dollars, the gift of Mr. Joseph Schaffner, is awarded annually to that student in the School of Commerce who has taken at least three courses throughout the year and whose work shows the best record for the year.

THE ILLINOIS SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS PRIZE

A prize of one hundred dollars was established in June, 1909, by the Illinois Society of Certified Public Accountants, for the purpose of stimulating interest in those subjects which are indispensable to students intending to enter the profession of accountancy. It is awarded annually to that student in the School of Commerce who makes the best record for the year in the two courses of Intermediate Accounting and Commercial Law, either I or II.

FEES AND EXPENSES

Tuition fees in the School of Commerce may be paid either in two installments, one at the beginning of each semester, or in advance for the entire year.

For full diploma course, four evenings of two hours each a week,	
Each semester	$45.00
In advance for the year	75.00
For three subjects, three evenings a week,	
Each semester	35.00
In advance for the year	60.00
For two subjects, two evenings a week,	
Each semester	25.00
In advance for the year	45.00
For one subject, one evening a week,	
Each semester	15.00
In advance for the year	25.00
Diploma Fee	10.00

Tuition for the first semester and for the year is payable October 9, 1911; for the second semester, February 12, 1912.

Students who become candidates for a diploma or a degree will be required to pay the matriculation fee of five dollars.

BUREAU OF APPOINTMENTS

Through this bureau, demands of the business community for trained men may be brought to the attention of students in the School of Commerce who are seeking to increase their efficiency and to rise to positions of greater responsibility. The efficacy of any efforts in behalf of students put forth by officers of the School will depend to a very large extent upon the co-operation of the students themselves. Information which may come to any student concerning positions to be filled should be brought promptly to the attention of the Bureau, together with such details as can be secured. Large business houses, in need of trained men, have frequently expressed a desire to secure graduates of the School. This interest of business men promises to open a wide field of opportunity. Registration for employment should be made at the office of the School.

Address all correspondence to Northwestern University School of Commerce, Lake and Dearborn Streets, Chicago.

The School of Oratory

The School of Oratory

Abram Winegardner Harris, Sc.D., LL.D.
President of the University

Robert McLean Cumnock, L.H.D.
Director

Robert McLean Cumnock, L.H.D.
Instructor in the Laws of Vocal Expression and Dramatic Action

Agness Law
Instructor in Dramatic Expression and Action

James Lawrence Lardner, A.M.
Instructor in Dramatic Art and Presentation

Isabella Lovedale
Instructor in Voice Culture and Interpretation

Anna Gerls Pease
Instructor in English Literature and Rhetoric

Julia Beth Farrell
Instructor in Reading and Dramatic Training

Josephine Frances McGarry
Instructor in Orthoepy and Forensics

Laura Lee
Instructor in Physical Training

Margaret Grace Gilbert
Instructor in Didactic Reading and Personation

The Northwestern University School of Oratory was organized in 1878 and occupies Annie May Swift Hall on the Campus at Evanston. It is under independent management, but is in close affiliation with the University. The regular course of study covers a period of two years, and offers extended and advanced training in Elocution, English, and Physical Training.

Students satisfactorily completing the regular course, and those

completing the post-graduate course are awarded diplomas by the University.

Students in the College of Liberal Arts, by giving care to the selection of their course, may be enabled to graduate from the School of Oratory and from the College of Liberal Arts in five years. Some students, with industry and application, complete the combined course in four years.

The cost of instruction is fifty dollars a term, payable in advance. This fee entitles the student to two private lessons a week, in addition to the regular courses.

For information regarding the School of Oratory, address R. L. Cumnock, Annie May Swift Hall, Evanston, Illinois.

Preparatory Schools

Preparatory Schools

Evanston Academy

Abram Winegardner Harris, Sc.D., LL.D.
President of the University

Herbert Franklin Fisk, D.D., LL.D.
Principal Emeritus

Nathan Wilbur Helm, A.M.
Principal and Instructor in Latin

Ada Townsend, A.M.
Instructor in Latin

Clara Grant, Ph.B.
Instructor in English

*Carla Fern Sargent, A.M.
Instructor in History

Jane Neill Scott, A.M.
Instructor in Latin

Lewis Hart Weld, A.M.
Instructor in Biology

Frances Christine Rawlins, A.B.
Instructor in English

†Helen Church
Instructor in Stenography; Secretary to the Principal

Lloyd Clinton Holsinger, A.M.
Instructor in Mathematics and Athletics

George L. Furrey, A.M.
Instructor in Physics and Mathematics

Lewis Omer, B.S.
Instructor in Mathematics and Athletics

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*Resigned December 1, 1911.
†On leave of absence.

Elizabeth Stanwood, A.B.
Instructor in English and History

Alvin Percy Bradley, B.S.
Instructor in Mechanical Drawing and Manual Training

Aubrey Shannon Moore
Instructor in Bookkeeping and Penmanship

Cowden Laughlin, Ph.D.
Instructor in German

Clarion De Witt Hardy, A.B.
Instructor in English and Public Speaking

Abram Elie Munier, A.B.
Instructor in French

Harry Thomas Nightingale, A.M.
Instructor in History

Alfred George Wathall
Instructor in Orchestral Music

S. Inez Traxler, A.B.
Instructor in Latin

Florence Schee
Instructor in English Grammar

Evanston Academy is situated on the University campus directly on the lake shore, in Evanston, and occupies Fisk Hall, which was erected in 1898. The special work of the School is to prepare students for college and technical school. Besides this special work a general academic education is offered to those who cannot take a regular course, but who wish to prepare themselves for the study of law or of medicine, or for teaching in the public schools, or for business.

As a member of the North Central Association of Colleges and Secondary Schools, the Academy has accredited relations with all the leading colleges and universities of the middle west. It has established special accredited relations with all Eastern universities that admit students by certificate. It is a member of the North Central Academic Association.

The course of study extends through four years and comprises fifteen units of study. Students who give satisfactory evidence of having done thoroughly a part of the course before entering are credited with that work. Students completing the course are admitted to the College of Liberal Arts on certificate of the Principal. The Academy provides instruction adequate for admission to college

in the English, French, German, Spanish, Latin, and Greek languages, in mathematics, science, history, and civics. It has an extensive manual training equipment and ample rooms completely furnished with apparatus for laboratory instruction in chemistry, mechanical and electrical physics, zoölogy, and botany. A new course of study preparing for business or college includes the fundamental subjects of a college preparatory course with others looking towards commerce. The latter subjects constitute about one-fourth of the course, and are accepted by Northwestern University for admission to the College of Liberal Arts.

Hatfield House, the Academy dormitory for boys, is a comfortable, well administered home for about twenty-five boys. The house master, who is a member of the Faculty, and a matron are in charge. The house is modern in its equipment—heating, plumbing, filtered water, bathing facilities. Students coming to the Academy from a distance, not earning their way nor residing with relatives, are required to live in the House.

For further information regarding Evanston Academy, address the Principal, Fisk Hall, Evanston, Illinois.

Grand Prairie Seminary

Abram Winegardner Harris, Sc.D., LL.D.
President of the University

Henry Hoag Frost, A.B.
President

Roy W. Withrow, B.S
Instructor in Science

Ella Louise Noyes, A.B.
Instructor in Latin and German

Clara Urania Mills
Director of the Conservatory

Florence Victoria Wallace, B.S.
Preceptress, Instructor in English

Arlington Clyde Hines, Ph.B., M.Accts.
Principal of the School of Commerce

Alice Selleck
Assistant in Commercial Branches

Clyde Leslie Kuhn, A.B., S.T.B.
Instructor in Pedagogy and Mathematics

Lois Johnson, Ph.B., B.S. in H. E.
Instructor in Domestic Science

Lucile Furnas, A.B.
Instructor in Public Speaking

Mabel Morris Timberlake
Instructor in Voice Culture

Jeanne Helen Thomson
Director of School of Art

Grand Prairie Seminary is a preparatory school founded in 1863 and affiliated with Northwestern University in 1901. It is well endowed and maintains a high standard of scholarship. It is situated in Onarga, Illinois, on the main line of the Illinois Central Railway, eighty-four miles south of Chicago. The town is an ideal place for a school, having no saloons, and the community is noted for its high moral tone. There is a public library, which is at the service of the members of the School.

The equipment of the Seminary consists of four buildings, a Recitation Hall for class instruction; an Auditorium for public exercises, for musical, oratory, and art instruction; a Gymnasium and Domestic Science Hall; and a Woman's Dormitory and Boarding Hall. The school has a library of carefully chosen volumes of standard works of reference on science, history, biography, and literature. It has laboratory facilities for instruction in physics, zoölogy, botany, chemistry, and domestic science. The Seminary offers the following courses: Academic, Normal, Business, Music, Public Speaking, Art, Domestic Science, and Gymnasium.

For further information regarding Grand Prairie Seminary, address the President, Onarga, Illinois.

Elgin Academy

Abram Winegardner Harris, Sc.D., LL.D.
President of the University

Frederick William Henselmeier, A.M.
Principal; Instructor in Greek

Florence Sarah Raymond, B.S.
Instructor in Mathematics

Harriett Kendall Burr, A.B.
Instructor in English

Oscar John Coe, B.S.
Instructor in Science; Director of Athletics

Lloyd Ruland, B.S.
Instructor in History

Pearl Evalina Foltz, A.B.
Instructor in German

Stella Cecelia Treadwell, A.B.
Instructor in Latin

Pearl Alma Dunbar
Principal of the Preparatory Department

Oliver Joal Penrose
Director of the Commercial Department

Mary Frances Hoag
Instructor in Stenography and Typewriting
Instructor in Stenography and English, Night School

Eva Meyer
Secretary to the Principal

Elgin Academy was first opened to students in December, 1856, in a commodious building erected the previous year. Its charter, originally granted in 1839, was revised in 1855, and in this amended form is still in force. In 1903 it became an affiliated school of Northwestern University.

The Academy is situated in the most healthful part of the city of Elgin, a city of 28,000 inhabitants, on the Chicago, Milwaukee and St. Paul and the Chicago and Northwestern Railways, about forty miles from Chicago. The campus, covering an area of four acres, presents an attractive view. The main building for the regular academic work is an imposing three-story brick structure. It is heated by steam throughout, lighted by electricity, and has the city water on two floors. The rooms are large, airy, and well lighted.

A large three-story building of brick, erected in 1888 through the generosity of Mrs. Vincent S. Lovell, for manual training purposes, is now used for science work and is known as the Lovell Science Hall.

This Academy offers to young men and young women excellent opportunities for a scholarly and practical education. Students are prepared for the leading colleges or for business. The surroundings are those of refinement and of Christian living.

For further information regarding Elgin Academy, address the Principal, Elgin, Illinois.

The Theological Schools

The Theological Schools

Garrett Biblical Institute

*Charles Joseph Little, Ph.D., LL.D., S.T.D.
Professor of Historical Theology; President

Charles Macaulay Stuart, A.M. D.D., Litt.D., LL.D.
Professor of Homiletics and Liturgics; President-Elect

Milton Spenser Terry, A.M., D.D., LL.D.
Professor of Christian Doctrine and Lecturer on Comparative Religion

Solon Cary Bronson, A.M., D.D.
Cornelia Miller Professor of Pastoral Theology and Social Relations; Secretary of the Faculty

Doremus Almy Hayes, Ph.D., S.T.D., LL.D.
Professor of New Testament Exegesis; Librarian

Frederick Carl Eiselen, Ph.D., D.D.
Professor of Semitic Languages and Old Testament Exegesis; Registrar

William Joseph Davidson, A.B., D.D.
Professor of Religious Education

Robert McLean Cumnock, A.M., L.H.D.
Professor of Elocution and Oratory

John Jacob Rapp, A.B., B.D.
Instructor in Greek and Hebrew

John Peter Hess, A.M., S.T.B.
Instructor in Historical Theology

James Lawrence Lardner, A.M.
Instructor in Elocution and Oratory

Elias Arnold Bredin
Instructor in Church Music

Caius Marcius Wood
Assistant Librarian

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*Deceased March 11, 1911.

Northwestern University has no theological school under its control, but ever since its establishment Garrett Biblical Institute has been recognized as meeting the needs of a theological department.

Garrett Biblical Institute was founded in 1855, primarily as a theological seminary where young men from the Methodist Church might be educated. It is open however, to men from any evangelical church who are properly recommended as candidates for the Christian ministry. It is supported by income from property in the city of Chicago, bequeathed in 1853 as a perpetual foundation by Mrs. Eliza Garrett.

The Institute is situated in Evanston, upon the University campus, and has the advantage of an interchange of work with the College of Liberal Arts. Students of the Institute may, on recommendation of the faculty, take work in the College of Liberal Arts, under the following conditions:

1. All courses in the University, will be open to the students of the Institute without cost, except as hereinafter provided.

2. No student will be recommended to the College of Liberal Arts unless he has been in residence one full year in the Institute, except in the case of modern languages, to which courses the recommendation may apply the first year.

3. No student will be recommended for admission to courses scheduling more than five semester hours.

4. Recommendations can be given only to regular students of the Institute; students in special courses and graduate students do not come within this rule.

5. All students entering the College of Liberal Arts from the Institute will be required to pay laboratory fees and fees of courses, which, under the rule of the College, require special fees.

6. All students registered in the Institute taking work in the College shall pay the fixed matriculation fee, viz. $5.00.

7. All students admitted to the College from the Institute shall, in all other respects than those herein set forth, be subject to the rules of the College of Liberal Arts.

The following courses in Garrett Biblical Institute are open for College undergraduate credit, the total credit for an individual student being limited to thirty semester hours.

Junior Hebrew.....4 hours
Middle Hebrew.....3 hours

Senior Hebrew	variable
Assyrian	2 hours
Advanced Assyrian	1 hour
Junior Greek	3 hours
Middle Greek	3 hours
Senior Greek	3 hours
History of the Christian Church	3 hours
Christian Doctrine	3 hours

Courses of Study

The courses of study offered come under two headings, Degree Courses and Diploma Courses. Candidates for the degree of Bachelor of Divinity or for the diploma of the Institute must complete in residence at least one year of fifteen hours a week in three or more departments of the Institute, arranged with the approval of the Faculty. No credit is allowed for work done *in absentia* or by correspondence.

DEGREE COURSES

The Degree Courses are as follows:

Bachelor of Divinity—The course for the degree of Bachelor of Divinity is a three years course arranged for classical graduates of approved colleges. Applicants, upon registration, are required to present their diplomas. Students, not graduates of colleges, may be admitted to this course, if, by examination or otherwise, they satisfy the Faculty of their classical and literary fitness to complete it.

Candidates for the degree of Bachelor of Divinity may elect Old Testament studies in English instead of work in Hebrew. In the senior year Elocution is the only required study.

Master of Arts—Students in Garrett Biblical Institute pursuing the Bachelor of Divinity Course may become candidates for the Degree of Master of Arts in Northwestern University on the conditions set forth on pages 193 and 194.

Doctor of Philosophy—A resident course of study leading to the degree of Doctor of Philosophy is offered to college graduates under the regulations prescribed on page 195. Four years are required as a minimum for this degree; three at least must be spent in residence at a theological school of high standing, and the last two at Garrett Biblical Institute.

DIPLOMA COURSES

Students who complete one of the following courses of study, each of which requires three years, receive the diploma of the Institute.

The Greek-Hebrew Course—This course is intended for those who desire to read and understand the Scriptures in the original, but are not prepared for the Degree Course. Greek is taught during three years, beginning with the elements. Hebrew is taught during the second and third years, beginning with the elements. The Greek class in exegesis reads the Synoptic Gospels and the Acts in the senior year. The Hebrew class reads selections from the prophetic and poetical books of the Old Testament. In other departments this course is substantially the same as the Bachelor of Divinity Course.

The Greek-English Course—English exegesis is substituted for Hebrew in this course; it is in other respects the same as the Greek-Hebrew Course.

The English Course—Training in the English Language, in Rhetoric, Logic, and Psychology takes the place of the study of elementary Greek and Hebrew, and English exegesis of the Scriptures is given instead of the study of the prophetic and poetical books in Hebrew and of the Synoptic Gospels and Acts in Greek. In Systematic, Historical, and Pastoral Theology, Elocution, and Sociology, the studies of the English Course are the same as in the other Diploma Courses.

Departments of Instruction

CHRISTIAN DOCTRINE

1. The Theology of the Old and New Testaments.
2. The Doctrines of the Christian Religion.
3. Apologetics.
4. Comparative Religion.

CHURCH HISTORY

1. General Survey of the History of the Christian Church.
2. The History of the Apostolic Church.
3. The History of the Medieval Church and of the Reformation.
4. The History of Methodism in America.
5. The History of Doctrine.

ELOCUTION

2. Delivery of Orations, Addresses, and Sermons.
3. Reading of the Bible, Hymn Book, and Liturgy.

HYMNOLOGY AND CHURCH MUSIC

1. Studies in Hymnology.
2. The Principles of Reading Music at Sight and Choral Sight Singing.

NEW TESTAMENT EXEGESIS

1. Greek, the Language of the New Testament.
2. General and Special Introduction of the New Testament.
3. Exegetical and Critical Study of various portions of the New Testament.
   (a) The Historical Books.
   (b) The Pauline Epistles.
   (c) The Epistle to the Hebrews.
   (d) The Catholic Epistles.

OLD TESTAMENT EXEGESIS

1. Hebrew, the language of the Old Testament.
2. Other Semitic Languages.
3. The History of the Hebrews.
4. The Religion of the Hebrews.
5. Exegetical and critical study of select portions of the Old Testament.

PRACTICAL THEOLOGY

1. The Organization and Administration of the Local Church.
2. Religious Education.
3. Evangelism.
4. Missions.
5. Christian Sociology.

HOMILETICS

1. The History of Preaching.
2. Sermon Analysis and Construction.
3. The Masters of Modern English Prose and Poetry.
4. Argumentation and Debate.
5. Psychology and Logic.

General Statements

CONDITIONS OF ADMISSION

Those who enter should have a thorough preparation. This can be obtained to advantage in the College of Liberal Arts. Graduates of approved colleges are admitted to the Degree Courses upon presentation of diplomas. Students not graduates of colleges are admitted by examination in classical and literary subjects. Applicants for admission to Diploma Courses must present certificates from approved high schools or academies, or pass an examination in the studies prescribed by the Bishops of the Methodist Episcopal Church for admission to an annual conference.

Applicants not licensed to preach are received on the recommendation of their respective quarterly conferences, or temporarily, on a note from their pastors, promising the recommendation in due time. The form of recommendation authorized by the General Conference of the Methodist Episcopal Church is as follows:

We, the members of the Quarterly Conference of ..... hereby express our judgment that ..... is called of God to the work of the ministry, and we recommend him to the care and instruction of Garrett Biblical Institute.

Applicants from other churches are admitted on such certificates as are usually given by the denominations to which they belong. Students from other theological seminaries may be admitted on presenting satisfactory testimonials of equivalent work and honorable dismissal.

METHODS OF INSTRUCTION

The methods of instruction include recitations, lectures, and free discussion.

Public lectures and addresses, covering all the topics that relate to the work of Christian scholars and pastors, are given from time to time by distinguished persons before the Faculty and students.

College graduates enjoy exceptional advantages. In several departments, conspicuously in the Exegetical and Historical, they are formed into separate classes. They are encouraged and helped to make special investigation, and they receive from their professors continued personal attention in their chosen line of study.

STUDENT SOCIETIES

During the year 1898, a Young Men's Christian Association affiliated with the World's Christian Student Federation was organ-

ized. The Literary Department aims to stimulate theological and literary studies by exercises in composition, criticism, and extemporaneous speaking. The Missionary Department furnishes information on Home and Foreign Missions, and keeps alive the missionary spirit among the students by weekly meetings and by occasional public meetings and lectures.

BUILDING AND EQUIPMENT

Libraries—The number of volumes in the Institute and University Libraries is about one hundred and ten thousand. Reading-rooms are connected with both libraries, and are supplied with the important dailies, weeklies, monthlies, and quarterlies, in general and theological literature.

Memorial Hall—Memorial Hall contains a large chapel, a library and two reading-rooms, seven lecture-rooms, with private rooms for professors, and a fire-proof addition for library and museum purposes.

Heck Hall—In Heck Hall, the dormitory, the rooms are in suites, consisting of study, bed-rooms, and wardrobe, and are furnished with tables, bookcases, bureaus, stands, chairs, bedsteads, and mattresses. Students supply the other furnishings.

FELLOWSHIPS AND SCHOLARSHIPS

Fellowships—The Faculty has recommended to the Trustees the founding of a Fellowship for post-graduate study abroad or at home. The Fellowship is to be awarded to those graduates of future classes who excel sufficiently in ability and attainments to warrant the devotion of their lives to special studies in Theology. The amount of the Fellowship will be $500.

The Wetherell Scholarship—The gift of Mr. S. N. Wetherell, of Crown Point, Indiana, yielding an income of about $50.00 a year, is awarded annually to a student recommended by the Faculty.

The Luke Hitchcock Scholarship—This scholarship was provided by Mrs. E. Crane Wilson, Mrs. Charles H. Fowler, and Mrs. Archer Brown, as a memorial to their father, the Rev. Luke Hitchcock, for many years a trustee of Garrett Biblical Institute. The annual income of $100.00 may be awarded by the President of the Institute to a student who is working in one of the City Missions in Chicago.

Several other scholarships are at the disposal of the President. Information concerning these will be furnished upon request.

EXPENSES

Young men who have learned to earn and save money often work their way unaided through college and the theological school. The means for self-help in and around Evanston are excellent, and many earnest and persevering students, with tact and helpfulness, find, and even create, opportunities. Some ninety or a hundred appointments for preaching have been made available to competent preachers among the students. Circumstances require that promises of aid shall be made with caution, and to the extent only of the abilty to meet them. The institution covets consecrated young men who never quail in the presence of difficulties and its aim is to aid them in every useful way. The Board of Education of the Methodist Episcopal Church renders efficient help by loans. The Sarah Stewart Fund, yielding four hundred dollars a year, is for the benefit of approved candidates for missionary fields.

Tuition and rooms are free to regular theological students. Each student occupying a room in Heck Hall is charged an incidental fee of twenty-six dollars a year, payable half-yearly in advance, for curator's service, heat, electric light, and general repairs. Other students pay, half-yearly in advance, a fee of six dollars a year.

For further information regarding Garrett Biblical Institute, address the Registrar, Memorial Hall, Evanston, Illinois.

Norwegian-Danish Theological Seminary

Nels Edward Simonsen, A.M., D.D.
Professor of History and of the Norwegian-Danish Language; President

*John Oscar Hall, A.M.
Professor of Theology and Oratory; Dean

Carl Wilhelm Schvenius
Professor of Psychology and Social Philosophy

Herbert Hansen, A.M.
Professor of English

The Norwegian-Danish Theological Seminary, established in 1870 and chartered in 1875, aims to prepare men for the ministry among the Norwegian and Danish people in this country. The Seminary building, erected in 1887, is situated at Sherman Avenue

*On leave of absence.

and University Place, and contains class rooms, offices, dormitory, and a dining hall.

Students are received on the recommendation of their Quarterly Conferences. For admission to regular standing a four year high school course or its equivalent is required. Those who lack this may complete their preparation in a course provided for them.

Students in the Seminary are admitted to all classes in Garrett Biblical Institute, and to classes of the College of Liberal Arts for which they have proper preparation. Students may take College courses amounting to five semester hours without paying tuition fees. Free access is given to all Evanston libraries.

The Seminary offers three distinct courses of study with liberal opportunities in elective work: (1) *The Hebrew Course,* studying all the books of the Bible in the original tongues; (2) *The Greek Course,* studying the New Testament in the original tongue, the Old Testament in English; (3) *The Norwegian-English Course,* requiring only Norwegian and English for the completion of the course.

For further information address the President, Norwegian-Danish Theological Seminary, Evanston, Illinois.

Swedish Theological Seminary

Carl Gideon Wallenius
Professor of Systematic Theology, Church History, Pastoral Theology, and Greek; President

Frank Anthony Lundberg, A.M., M.D.
Professor of English, Natural Science, and History

William Henschen, Ph.D.
Professor of Swedish and Psychology

John Emanuel Hillberg
Professor of Homiletics

The Swedish Theological Seminary began its work in 1870 at Galesburg, Illinois. In 1881 it was moved to its present permanent home in Evanston and is now established in a substantial and commodious building on its own campus. Its students are admitted to all the advantages of the University. It is under the supervision of the five Swedish Conferences of the Methodist Episcopal Church in the United States, and is the only school of its kind in that Church.

The continued demand for preachers among the Swedish people in this country makes it an imperative duty for the Church to main-

tain a special institution of learning, where suitable men can be educated for the Swedish ministry, both for the regular pastorate and as missionaries to the multitude of their own people scattered all over the country.

The Seminary is supported by the income from an educational fund, collected mainly among the Swedish Methodist churches in the country. The aim of the School is to do practical work in helping young men toward success in the ministry.

Students are received on the recommendation of their Quarterly Conferences.

The regular course of study in the Seminary is broad and practical and requires four years. Progress in studies is determined by examination, written and oral. On the satisfactory completion of the full course of study, students receive the Seminary diploma. There is no tuition fee.

For further information address the President, Swedish Theological Seminary, Evanston, Illinois.

Fraternities, Sororities and Clubs

Fraternities, Sororities and Clubs

With date of Establishment in the University

SCHOLARSHIP

Phi Beta Kappa, Illinois Alpha Chapter, 1889, College of Liberal Arts
Sigma Xi, Northwestern Chapter, 1906, College of Liberal Arts and Medical School
Alpha Omega Alpha, 1903, Medical School
Order of the Coif, 1906, Law School

Delta Sigma Rho, Northwestern Chapter, 1906, Debating
Acacia Fraternity, Alpha-Beth Chapter, 1910, Masonic
Oxford Club, 1909, Religious

THE COLLEGE OF LIBERAL ARTS

Deru, Senior Fraternity, 1896
Sigma Chi, Omega Chapter, 1869
Phi Kappa Sigma, Upsilon Chapter, 1872
Beta Theta Pi, Rho Chapter, 1873
Phi Kappa Psi, Illinois Alpha Chapter, 1878
Delta Upsilon, Northwestern Chapter, 1880
Phi Delta Theta, Illinois Alpha Chapter, 1858
Delta Tau Delta, Beta Pi Chapter, 1893
Sigma Alpha Epsilon, Illinois Psi-Omega Chapter, 1894
Sigma Nu, Gamma Beta Chapter, 1898
Aleph Teth Nun, 1902
The Wranglers, 1904
The Scribblers, 1908

Epsilon Iota, Senior Sorority, 1904
Alpha Phi, Beta Chapter, 1881

Delta Gamma, Sigma Chapter, 1882
Kappa Kappa Gamma, Upsilon Chapter, 1882
Kappa Alpha Theta, Tau Chapter, 1887
Gamma Phi Beta, Epsilon Chapter, 1888
Pi Beta Phi, Illinois Epsilon Chapter, 1894
Delta Delta Delta, Epsilon Chapter, 1895
Chi Omega, Xi Chapter, 1901
Kappa Delta, Lambda Chapter, 1907
Alpha Omicron Pi, Rho Chapter, 1909

THE MEDICAL SCHOOL

Phi Rho Sigma, Alpha Chapter, 1890
Nu Sigma Nu, Zeta Chapter, 1891
Alpha Kappa Kappa, Xi Chapter, 1901
Phi Beta Pi, Theta Chapter, 1902
Omega Upsilon Phi, Mu Chapter, 1903
Alpha Phi Sigma, Beta Chapter, 1908
Phi Chi, Pi Rho Sigma Chapter, 1910
Phi Alpha Sigma, Zeta Chapter, 1910

THE LAW SCHOOL

Phi Alpha Delta, Melville W. Fuller Chapter, 1898
Alpha Kappa Phi, Alpha Chapter, 1900
Phi Delta Phi, Booth Chapter, 1880

THE SCHOOL OF PHARMACY

Phi Delta Chi, Beta Chapter, 1895
Kappa Psi, Phi Chapter, 1902

THE DENTAL SCHOOL

Delta Sigma Delta, Eta Chapter, 1891
Psi Omega, Iota Chapter, 1896
Xi Psi Phi, Rho Chapter, 1900

THE SCHOOL OF MUSIC

Alpha Chi Omega, Gamma Chapter, 1890
Sigma Alpha Iota, Beta Chapter, 1904
Phi Mu Alpha, Iota Chapter, 1909

THE SCHOOL OF ORATORY

Zeta Phi Eta, Beta Chapter, 1893
Omega Upsilon, Alpha Chapter, 1904
Sigma Delta Gamma, Alpha Chapter, 1910

University Societies

University Societies

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Elizabeth Bragdon, 1900, Recording Secretary
Horace Greeley Smith, 1905, Treasurer

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Alpha Omega Alpha

Dr. Winfield Scott Hall, 1888, Primarius
Dr. Charles Louis Mix, Counselor
Dr. Clifford Grosselle Grulee, 1903, Alumni Chairman
Dr. Luther James Osgood, 1903, Secretary and Treasurer

Science Club

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Alumni Associations

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39 South LaSalle Street, Chicago

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1709 Chicago Avenue, Evanston

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Term Expires 1914

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Denver

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Dr. Ralph E. Balch, Secretary and Treasurer
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Coldwater

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York

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Walter Scott, Secretary and Treasurer
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Northwestern Club of New York

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Tribune Building

Clarence Dickinson, Secretary
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Oklahoma City

Rev. James R. Hamilton, Secretary and Treasurer
1615 Ellison Avenue, Oklahoma City

St. Louis Alumni Association of Northwestern University

Stephen P. Hart, President
46 South Jefferson Barracks Road, Webster Groves

Dr. John J. Link, Secretary and Treasurer
Metropolitan Building, St. Louis

Northwestern University Alumni Association of Salt Lake City

Rev. Elmer I. Goshen, President
University Club, Salt Lake City

Otto R. Peters, Secretary
124 "W" Street, Salt Lake City

Northwestern Club of Seattle, Washington

Warren D. Lane, President
711 White Building

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Dr. John C. Sundberg, Second Vice-President
Port Angelus

Eugene W. Bell, Secretary and Treasurer
749 New York Block

Northwestern University Alumni Association of Southern California

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Dr. Norman Bridge, Vice-President
100 Grand Avenue, Pasadena

Rev. Robert J. Coyne, Secretary and Treasurer
1717 Court Street, Los Angeles

Northwestern Club of Spokane, Washington

Dr. F. L. Hubbard, President
528 Old National Bank Building

L. R. Horton, Vice-President
Payton Building

Pearl A. Smith, Secretary
602 East 19th Avenue

Dr. G. R. Heap, Treasurer
Jamieson Building

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1666 Hewitt Avenue, St. Paul

L. N. Foster, Vice-President
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Dr. C. H. Bradley, Secretary and Treasurer
1016 Donaldson Building, Minneapolis

Northwestern Club of Washington, D. C.

Isaac R. Hitt, Jr., President
1334 Columbus Road, Washington

Harrison E. Patten, Secretary and Treasurer
1342 Girard Street, Washington

Wisconsin Alumni Association

Clare G. Hall, President
412½ Newberry Boulevard, Milwaukee

Dr. F. W. Heineman, Vice-President
82 Wisconsin Street, Milwaukee

Dr. D. E. W. Wenstrand, Secretary and Treasurer
Northwestern Mutual Life Insurance Company, Milwaukee

Northwestern University Medical School Alumni Association of Iowa

Dr. H. H. Clark, President
McGregor, Iowa

Dr. Guy T. McCauliff, Secretary and Treasurer
Webster City, Iowa

Kansas Alumni Association of Northwestern University Dental School

Dr. Francis B. Ingersoll, President
Greensburg

Dr. Clarence K. Weaver, Secretary
Clay Center

Dr. Howard B. Saunders, Treasurer
Nortonville

Prizes and Honors, 1910-1911

Prizes and Honors, 1910-1911

University

Gage Prize—for excellence in debate: Jesse William Bunch, Jay LeRoy Chestnutt, James Manley Phelps, Raymond S. Pruitt, Otto Edwin Reinhart, Samuel Eugene Whiteside.

Kirk Prize—for excellence in oratory: Jay LeRoy Chestnutt; honorable mention, James Thomas Haviland, Robert Gregory Piper, Raymond Gurton Southworth.

College of Liberal Arts

Sargent Prize—for excellence in declamation: Mary Ward Holton, Jay LeRoy Chestnutt.

Harris Prize—in Political and Social Science: Homer Bews Vanderblue.

Orrington Lunt Prize—for essay writing: Ruth Cady.

E. P. Stranberg's Stipendium—for excellence of work done in Swedish, awarded by Föreningen för svenskhetens bevarade i Amerika (Society for the Preservation of Swedish in America): Axel Leonard Wedell.

Medical School

INTERNES CHOSEN FROM THE CLASS OF 1911

Alexian Brothers Hospital—Chauncey Wyckoff Howell, Harold J. Allison, Jo Riegel Shiley, Chauncy Walter Strauss.

Chicago Baptist Hospital—Jacob John Sybenga, Melvin Leo Hole.

Chicago Lying-in Hospital—Chauncy Walter Strauss.

Chicago Policlinic Hospital—Elmer Clyde Leininger, Frank Wilford Hall.

City Hospital, Seattle, Washington—Gerrit Edward Vermeer.

Columbus Hospital—John Baptist Nardi, Nathan David Leviton, Asa George Woodward.

Cook County Hospital—Jacob Richter Buchbinder, William Harley Glafke, William Alfred James, Charles Goodman, Albert Andrew Schultz, Harry Charles Rolnick, Eugene John O'Neill, Harry Joseph Dooley, Edwin Ray Fountain, Fred Morris Meixner, Don Carlos Sutton, Ambler Baxter Patton, Milton Ave Given, Hiram Earl Ross, Newton Edward Wayson, James Patejdl.

Dee Memorial Hospital—Richard Clyde MaCloskey.

Englewood Hospital—John Adam Ritze.

Evangelical Deaconess Hospital—Adolph Marinius Magnus, Charles Lupton Gillette.

German Hospital—Alva Albertus Jackson.

Hackley Hospital, Muskegon, Michigan—Harry Counter Parker.

Hand Hospital, Hartley, Iowa—Frank D. Schwerdtfeger.

Iowa Methodist Hospital, Des Moines, Iowa—Robert Columbus Nichols, Clifton LeRoy Belding.

Latter Day Saints Hospital, Salt Lake City, Utah—Arthur Dike Cooley.

Los Angeles County Hospital, Los Angeles, California—Harold Paul Cole, Percival Milton Williams.

Lutheran Hospital, La Crosse, Wisconsin—George Christiansen.

Mercy Hospital—LeRoy Elbert Angell, Stanley Goodrich Reed, John Lewis Fry, Harry Leach Schurmeier, Thomas Joseph O'Donoghue, John Francis Henry Deal, Norton Theodore Johnson.

Michael Reese Hospital—Stanley Joseph Seeger, William Maxwell Empie, Harry Joseph Anderson, Elmer Wellpott Schnoor.

Milwaukee County Hospital, Milwaukee, Wisconsin—John Barlow James, Frank McLean Campbell, Stanley Leon Krzysko, Everett Woods Maechtle.

Northern Pacific Hospital, Tacoma, Washington—Herbert Yoemand Bell.

Northwestern Hospital, Minneapolis, Minnesota—Benjamin Joseph Shalett.

Passavant Memorial Hospital—Hugh Mack Leaf, Otto Henry Schulz, Martin J. Lacey.

Pierce County Hospital, Tacoma, Washington—William Hammond Holmes.

Post Graduate Hospital—William Augustus Schwartz.

Sacramento County Hospital, Sacramento, California—Eric Alfred Julien.

St. Barnabas Hospital, Minneapolis, Minnesota—Julius Ord Arnson, Glenn Llewellyn Baker, Jo Riegel Shirley.

St. Bernard's Hospital—Louis Leon Frisque, Francis Augustine Collins.

St. Elizabeth's Hospital—Herbert Bailey Henkel, Roy Calhoun Coffey.

St. Francis Hospital, La Crosse, Wisconsin—Ward Hannah.

St. Francis Hospital, Topeka, Kansas—Ralph Waldo Mendelson.

St. Joseph's Hospital—Lea Marion Murphy, Floyd Ellsworth Best.

St. Joseph's Hospital, Denver, Colorado—Clarence Walter Hall.

St. Joseph's Hospital, St. Paul, Minnesota—George Victor Winter.

St. Luke's Hospital—Alfred Henry Boon, Neil Mackay Gunn, Henry Arthur Sincock.

St. Mark's Hospital, Salt Lake City, Utah—Wilford William Beck.

St. Margaret's Hospital, Hammond, Indiana—George Victor Winter, Harry Counter Parker.

St. Mary's Hospital, Duluth, Minnesota—Roy George Spurbeck.

St. Mary's Hospital, Rochester, Minnesota—Guy Lee Boyden.

Springfield Hospital, Springfield, Illinois—Lewis Barclay Bell.

Swedish Hospital, Minneapolis, Minnesota—Ernest Wilfred Ingle.

Washington Park Hospital—Arthur Garfield Frey.

Wesley Hospital—Clyde Tennyson Smith, Abe Mark Newton, Frederick Willard Brian, Walter Leonard Stranberg, Martin Henry Merbitz, Frank Stewart McKinney, Arthur Lee Shreffler, Moses Marion Neilson, Payson LaVern Nusbaum, Ney Milton Salter, Arthur Wesley Hammer.

Law School

The Henry Sargent Towle Prizes—for proficiency in debate: Raymond S. Pruitt, Charles H. Watson.

Callaghan Prize—for the best record in scholarship for the entire course: Robert William Schupp.

Roscoe Pound Prize—for the best record in scholarship for the entire course: Robert William Schupp.

Charles G. Little Prize—for the second best record in scholarship for the entire course: Richard Yates Hoffman.

The Blackstone Prize: not awarded.

The Follansbee Prize: not awarded

The Hyde Prize: not awarded

The MacChesney Prizes: not awarded

The Kocourek Prize: not awarded

School of Pharmacy

Honorable Mention—for excellence in scholarship: Constantine Sotirion Eftaxopoulos, Waldemar Harold Hendrichsen.

School of Commerce

Joseph Schaffner Prize—for highest scholarship in three or more courses: Alexander Wright Taylor Ogilvie.

Illinois Society of Certified Public Accountants Prize: David Himmelblau.

The work of the following students, registered for three or more courses in the School of Commerce in 1910-1911, was marked by distinguished excellence: Alfred Herman Oscar Erickson, Whitney Byford Flershem, Allastair Gillies, Christian Ehler Jarchow, Joseph Sebastian Kelley, William Herbert Maddock, George Washington Nilsson, Marcus Marcellus Redenbaugh.

Phi Beta Kappa

MEMBERS INITIATED JUNE, 1911

HONORARY MEMBERS

Cassius M. Clay Buntain, 1899
Ralph Brownell Dennis, 1901
Frederick Carl Eiselen
Jacob Wellington Frizzelle, 1888
Grace Foster Herben, 1889
Dwight H. Perkins

MEMBERS ELECTED IN COURSE

Helen Elma Adams
Anna Mae Botkin
Marion Eulalie Burnette
Ruth Cady
Margaret Grace Cater
Raymond Chambers
Margaret Fabian
Melissa Elmore Foster
Harriet Gage
Algernon Isaac Gilmore
John Frederick Hallwachs
Pearl Beatrice Hood
Anna Johanna Johnson
Amalie Knudsen
Hilde Marie Kramer
Edna Gertrude Luke
Josephine Florence Lynch
Ella Louise Noyes
Charles Anderson Pace
Robert Gregory Piper
Leo Ranney
George LeRoy Schnable
Erwin Rudolph Stoekle
John Frederick Strombeck
Marion Rex Trabue
Homer Bews Vanderblue
Celia Waring
Percival Lloyd Williams
Catherine Viola Wilson
Ina Electa Young

Sigma Xi

MEMBERS ELECTED, 1911

Everett Crockett Moulton
Edward Leffingwell Troxell

Alpha Omega Alpha

MEMBERS ELECTED FROM THE CLASS OF 1911

Karel Bartholomae Blahnik
Alfred Henry Boon
Jacob Richter Buchbinder
Edwin Ray Fountain
Fred Morris Meixner
Abe Mark Newton
James Patjdl
Hiram Earl Ross
Elmer Wellpott Schnoor
Albert Andrew Schultz

MEMBERS ELECTED FROM THE CLASS OF 1912

Nathaniel Graham Alcock
Willis Stanley Gibson
Joseph Francis Jaros
Gus Burton Turner
Guy VanAlstine

Order of the Coif

MEMBERS ELECTED, 1911

Hugh Parker Green
Samuel Kraus
Charles Anthony Reinwald
George Dresser Smith
Floyd Meloy Stahl
Fred Thulin
Carl Augustus Waldron

Editorial Board, Illinois Law Review

MEMBERS APPOINTED, 1911

Nathan Sidney Blumberg
Berthold Laflin Goldberg
Flora Madge Hartmar
Abraham James Hennings
Albert Stoneman Long
Alexander Hamilton Marshall
Myron Hawley Tichenor, Jr.
Fred Thulin
Ira Edward Westbrook

Degrees Conferred, 1910-1911

Degrees Conferred, 1910-1911

Honorary Degrees

Isabel Garghill Beecher.....Master of Arts

Thomas Lewis Gilmer.....Doctor of Science
Professor of Oral Surgery, Dental School

Alfred Edwin Craig.....Doctor of Divinity
Of the Class of 1890

Clement Walker Andrews.....Doctor of Laws
Librarian of the John Crerar Library, Chicago

Timothy Prescott Frost.....Doctor of Laws
Pastor of the First Methodist Episcopal Church, Evanston

Oscar Oldberg.....Doctor of Laws
Dean of the School of Pharmacy, 1886-1911

Degrees in Course

Clara Belle Baker.....Master of Arts
Thesis: In Harmony. A story

John William Boren.....Master of Science
Thesis: The Elimination of Albumin, Hyaline Casts, and Acetone in Health

Gilbert Haven Cady.....Master of Arts
Thesis: A Preliminary Study of the Geology of the West Frankfort Quadrangle, Illinois

Lucile Follett Cannon.....Master of Arts
Thesis: The Ethos of Meters in The Odyssey

Charles Wesley Gethmann.....Master of Arts
Thesis: The Code of Hammurabi and The Book of The Covenant

Harry Bainbridge Gough.....Master of Arts
Thesis: A Study of the Crowd in Julius Cæsar

Arthur William Henke.....Master of Arts
Thesis: The Mysticism of St. Paul

Otto Theodore Hokaasen.....Master of Arts
Thesis: Economic Progress under the Great Elector, 1667-1688

Robert T. Holland.....Master of Arts
Thesis: The Ethical Phase of the Zion City Movement

Chapman Simpson Lewis.....Master of Arts
Thesis: The Development of John Keble's "The Christian Year"

Mary Paarlberg.....Master of Arts
Thesis: German Epigrammatic Poetry with special reference to Logau and his Imitators

Myrtle Zoa Pider.....Master of Arts
Thesis: The Ethics of Jesus

Clarence Gilbert Pool.....Master of Science
Thesis: A Study of the Comparative Anatomy of the Tonsil

Eleanor Gertrude Pooley.....Master of Arts
Thesis: French and American Diplomacy during the American Revolution

Neal Daniel Reardon.....Master of Arts
Thesis: What is a Political Offense—The Practice of the United States in that Respect

Vera Sjöström.....Master of Arts
Thesis: Montaigne et Anatole France

Eli Victor Smith.....Doctor of Philosophy
Thesis: Histology and Histogenesis of the Sensory Ganglia of Birds

Florence Alberta Stockley.....Master of Arts
Thesis: Introduction of Characters in the Iliad

Luella Cornelia Stueckemann.....Master of Arts
Thesis: A Study of the Views of Professors Foerster and Golther on the Celtic Elements in the Romance of Christian de Troies

Edward Leffingwell Troxell.....Master of Arts
Thesis: Terraces of Kellogg Ravine

William Charles Wermuth, Jr.....Master of Science
Thesis: The Diplomatic Relations Between the United States and the Hawaiian Islands to the Year 1896

Louis Caulton West.....Master of Arts
Thesis: The Social Reforms of Stein and Hardenberg between the years 1807 and 1812

Arthur Williams.....Master of Arts
Thesis: The Moral Philosophy of Horace

BACHELOR OF ARTS

Helen Elma Adams
Merl Virginia Anderson
Ruth Baker
Mae Martha Barlow
Homer Honeywell Beall
Marshal Beck
Ebba Henrietta Bedker
Edward George Berglund
Anna May Botkin
Pauline Harriett Brooke
Ray Forrest Bruce
Marion Eulalie Burnette
Ruth Cady
Margaret Ann Carey
Margaret Grace Cater
John Clair Chamberlin
Raymond Chambers
Carl Flory Coffman
Edith Whitcomb Cooke
Ryder Forrest Cool
Maude Irene Corbett
Grace Mae Currier
Gertrude Alice Foster
Almeda Fullerton
Harriet Gage
Juliette Gates

Lotus Lucille Goddard
John Frederick Hallwachs
Albert Arthur Halter
May Hanes
Ethel Vera Hard
Ralph Wackerle Harker
Sarah Bacon Harris
Margaret Isabelle Harvey
Mary Ward Holton
Pearl Beatrice Hood
Bertha Blanchard Howell
Minnie Isabella Hyde
Anna Johanna Johnson
Rachel Bangs Jones
Avaline Hull Kindig
Ethel Veva King
Mabel Elizabeth Kline
Amalie Knudsen
Hilde Marie Kramer
Warren Kenneth Layton
Olive Beatrice Lennox
Josephine Florence Lynch
Clara Grace McGregor
Florence Adelle Mapes
Jeanne Marie Maris
Ada Marie Melick
Edith Sarah Moody
Alice Lydia Moore
Cornelia Beretta Moreland
Abraham Elias Munyer
Ella Louise Noyes
Martha Geneva Olson
Adele Marie Persch
Robert Gregory Piper
Louise Antoinette Roberts
Mark Morris Robinson
Helen Henrietta Schell
Marie Graves Scudder
Olga Elizabeth Seewald
Esther Littell Semans
William Marrs Shoop
Hassel Wendel Smith
David Grosh Thompson
Marion Rex Trabue
Florence Turnbull
Willis Lemon Uhl
Homer Bews Vanderblue
Marjorie May Verbeck
Agnes Louise Vincent
Virginia Zelteen Walker
Elsie Walpole
Althea Jeannette Walter
Walter Talmage Ward
Ruth Ann Waring
Axel Leonard Wedel
Helen Irene Weir
John Junior Williams
Percival Lloyd Williams
Gertrude Edna Willott
Catherine Viola Wilson
Ina Electa Young

BACHELOR OF SCIENCE

Ruth Sarah Atwell
William Phillip Barth
Robert Lee Beale
Robert Wesley Brown
James Calvin Burdette
Marie Ellen Carlson
Sherman Alexander Charles
Frederick Christopher
Charles Russell Clapp
Roy Calhoun Coffey
Charles Edwin Dreher
George William Erb
Samuel Dawson Erwine
Irmgard Anna Esch
Margaret Fabian
Algernon Isaac Gilmore
Mabel Margaret Gloeckler
Anna Dennis Gloss
as of the class of 1883
Winifred Pearl Goodsmith
Paul Luther Grove
William Joseph Harris
Charles Ordway Hilton
Sadie May Hopkins
Douglas Montgomery Johnson
Gertrude Amelia Johnson
Marcia Johnson
Charles Herbert Jones
Ida Kahn
Bun Kanno
Bertha Goodwin King
Aaron James Little
Edna Gertrude Luke
John Alfred Manley
Albert Christopher Mueller
Seth Chapin Langdon
Hulda Louise Margaret Larson
Maurice Chaffee Leigh

Victor Nels Liljegren
Florence Eleanor Newell
Charles Anderson Pace
Beulah Alexia Plummer
Edith Mildred Pritchard
Leo Ranney
Omar Errol Roosa
William Hoyt Schaeffer
George LeRoy Schnable
Helen Mitchell Spencer
Harold Augustus Spilman
Erwin Rudolph Stoekle
John Frederick Strombeck
Oscar Emmanuel Swanson
Harry Earle Sweitzer
Lucie Marie Vick
Celia Waring
James Thomas Watson
Irene Martha Werno
Harriet Lincoln Wilson
Catherine Evangeline Winyall
Carl Nicholas Wolf
Margaret Ruth Wyne

DOCTOR OF MEDICINE

William Robert Abbott
Harold T. Allison
Harry Joseph Anderson
Marion Ellsworth Anderson
Lasar Andres
William Rufus Apple
Julius Ord Arnson
Glenn Llewellyn Baker
George William Batt
Wilford William Beck
Clifton LeRoy Belding
Herbert Yeomans Bell
Lewis Barclay Bell
Floyd Ellsworth Best
Nathan Sidney Bevins
John Roland Black
Karel Bartholomae Blahnik
Frederick Harvey Bly
Alfred Henry Boon
Galen Ford Bowman
Guy Lee Boyden
Frederick Willard Brian
Eugene Harold Brown
Jacob Richter Buchbinder
Frank McLean Campbell
George Christiansen
Roy Calhoun Coffey
Harold Paul Cole
Francis Augustine Collins
John Joseph Condon
Arthur Dike Cooley
Lloyd Benjamin Crow
Asa Lyman Curtis
John Francis Henry Deal
Harry Frederick Diers
Harry Joseph Dooley
William Henry Drissen
William Maxwell Empie
Edwin Ray Fountain
Nathaniel Daniel Frazin
Arthur Garfield Frey
Louis Leon Frisque
John Lewis Fry
Russell Sheridan Galbreath
Charles Harry Ghent
Charles Lupton Gillette
Milton Abe Given
William Harley Glafke
Charles Goodman
Harley James Gunderson
Neil Mackay Gunn
Perpetuo Dionisio Gutierrez
Clarence Walter Hall
Frank Gilford Hall
William Forrest Hamilton
Arthur Wesley Hammer
Ward Hannah
Adolph Melanchton Hanson
George David Hauberg
Herbert Bailey Henkel
Charles Alfred Hobbs
Joseph Hofrichter
Melvin Leo Hole
Will Hammond Holmes
Chauncey Wyckoff Howell
Ernest Wilfred Ingle
Paul Alonzo Isherwood
Alva Albertus Jackson
Harry Lorenzo James
John Barlow James
William Alfred James
Edward Enoch Johnson
Norton Theodore Johnson
Louis Campbell Johnston
Jay Glenn Jones
Eric Alfred Julien
William Scott King
Stanley Leon Krzysko

Martin J. Lacey
Francis Ambrose Lagorio
Benjamin Lande
Boleslaw Karl Lazarski
Hugh Mack Leaf
William Andrew Lee
Elmer Clyde Leininger
Alonzo Newport Leonard
Nathan David Leviton
Richard Clyde MacCloskey
Frank Stewart McKinney
Melbourne Mabee
Robert Kirkpatrick Macklin
Everett Woods Maechtle
Adolph Marinius Magnus
Fred Morris Frankfort Meixner
Ralph Waldo Mendelson
Martin Henry Merbitz
John William Miller
George Gowans Moyes
John Clarence Murphy
Lea Marion Murphy
Walter Waugh Murphy
John Baptist Nardi
Moses Marion Nielson
Abe Mark Newton
Robert Columbus Nichols
Payson LaVern Nusbaum
Charles Robert Nyberg
Thomas Joseph O'Donoghue
Eugene John O'Neill
James John O'Meara
Wesley Frederick Orr
Harry Counter Parker
James Patejdl
Ambler Baxter Patton
Frederick Leander Peterson
Gaylord Eugene Pitts
John Rice Porter
Frenn Lesley Preston
Stanley Goodrich Reed
John Adam Ritze
Harry Charles Rolnick
Hiram Earl Ross
Louis Rudolph
Ney Milton Salter
Karl Herman Schmidt
Elmer Wellpott Schnoor
Albert Andrew Schultz
Otto Henry Schulz
Harry Leach Schurmeier
William Augustus Schwartz
Frank D. Schwerdtfeger
Stanley Joseph Seeger
Benjamin Joseph Shalett
Jo Riegel Shiley
John Chandler Shirley
Arthur Lee Shreffler
Henry Arthur Sincock
Alfred Nelson Smith
Clyde Tennyson Smith
George Frederick Sorgatz
Roy George Spurbeck
Lynn D. Stewart
John Carter Stocks
Walter Leonard Stranberg
Chauncey Walter Strauss
Don C. Sutton
Jacob John Sybenga
Henry Arthur Tressel
Raymond Fleming Van Doren
Leo Paul Van Rio
Orley Mason Vaughan, Jr.
Gerrit Edward Vermeer
Henry Gustav Watters
Andrew Benjamin Wessels
Percival Williams
George Victor Winter
William Wencel Witcpalek
Sidney Jonas Wolfermann
Asa George Woodward
Edward Blake Wright
Charles Walter Yeck

BACHELOR OF LAWS

Benjamin P. Ackerman
James C. Baker
Alben Frederick Bates
William Gordon Berg
Irwin Bloom
Fred C. Churchill
Michael James Clarke
Charles Furness Dyer
Donald Winslow Evans
Robert Kirkbride Everest
Herbert Lyman Thomas Frazier
Raymond Henry George
Francis Laird Harwood
George Thompson Healea
William Eugene Helander
William Eugene Henn
Edward Abraham Hochbaum
Richard Yates Hoffman

Alfred Clinton Hoy
Claude Carl Jenkins
Samuel Kraus
Shelby LaVerne Large
John Conrad Lehner
Stephen Love
Charles Edward Loy
Edward Bulnes Lucius
Irwin Roy McKinstry
Charles Milton McWilliams
James Oscar Mirus
Otto William Muehlenbrink
Cheaney Land Parish
Edwin Tice Peifer
Frank A. Ramacitti
Wallace Reid
Julius Ernest Reinke
Thomas Henry Riley
Earl Jay Robinson
Jasper Frederick Rommel
George Washington Ruffcorn
Morris Schaeffer
Royal Joe Schmidt
Robert William Schupp
George Dresser Smith
Bernhard Stenge
John Ralph Tascher
Oral Percival Tuttle
Carl Augustus Waldron
Joel Phillips Walker
William Charles Wermuth, Jr.
Merrick Ames Whipple
Alexander Wolf

PHARMACEUTICAL CHEMIST

DEGREE CONFERRED IN APRIL, 1911

James H. Dickey

DEGREES CONFERRED IN JUNE, 1911

Charles Clyde Anderson
Edward Vincent Boarini
Robert Emmett Coughlan
Thomas Francis Heffernan
Herbert Ernest Hillebrecht
Edward Samuel Kaufmann
Maurice Mayer Newman
Mary Cecelia Nolan
Arnold Fred Schaettgen
Roy Page Stewart
Robert Walter Weech
Walter Heli Wyszynski

GRADUATE IN PHARMACY

DEGREES CONFERRED IN APRIL, 1911

Charles Clyde Anderson
Lee Henry Andre
David Baxter
Edward Vincent Boarini
Roy Elmer Buck
Leo Melville Cady
Lloyd Bruce Campbell
Jay J. Cook
Robert Emmett Coughlan
Eugene Felix Daudelin
Harold Pericles Dereby
Robert Walter Donaldson
Harry Millur Donichy
Madison Clayton Donnell
Constantine Sotirion Eftaxopoulos
Samuel Eppelsheimer
Charles Leo Gimbel
John Phillip Halliwell
Selmer Hanson
Thomas Francis Heffernan
Alfred Hendrickson
Waldemer Harold Hendricksen
Fred LeRoy Hill
Herbert Ernest Hillebrecht
Clifford Paul Hoagland
Oscar H. Johanson
Bert Napoleon Johnson
Melvern Lloyd Johnson
Edward Samuel Kaufmann
Albert James Kohlman
Raymond Robert Little
Carl August Mackh
Henry Farris Miller
William Seegmiller Musser

Graham William Nesbit
Maurice Mayer Newman
Mary Cecelia Nolan
Walter Otto Nolting
Edward Louis Park
Walter Leon Pulley
Arnold Fred Schaettgen
Thomas Henry Schopp
Roy Page Stewart
Walter Oliver Stoll
Charles Benton Stoltz
Earnst Strassburger
Winfred Erle Tanner
James William Wade
Robert Walter Weech
Fred Douglas Wilson
Arthur Aaron Zieske
John Zwack

DEGREES CONFERRED IN JUNE, 1911

George Emanuel Bull
Clarence William Parker
Frederick Wills Patton
Leslie Anthelm Schoen
Raymond Joseph Thoma

DOCTOR OF DENTAL SURGERY

Abraham Ber Adelson
Thomas B. Anderson
Mortimer Milton Bartley
George Mudie Beatty
Raymond Marcus Benn
John August Bigler
Ernst Blomberg
George Leonard Bowden
John A. Bremner
Geoffrey Patteson Brown
Ralph Waldo Bushee
William Zacharias Carroll
Dai Yen Chang
Joseph William Chulock
James Paul Clark
John Thomas Cornwall
Wilford Charles Cox
Harry Burch Crawford
Hubert Francis Delmore
Charles Dixon
William Henry Duncan
John Taylor Dunlap
Edward Eugene Flannery
Ralph Homer Fouser
John Henry Fox
William Thomas Fry
D. Raymond Garber
William Ross Gayle
Charles Clyde Goldthorpe
Arthur Lane Grossberg
Earl Fremont Harrington
Delmar J. Harrison
Francis Joseph Hemmer
William James Hewitt
Carl Martin Holland
Arthur George Holtan
Harold Ince Horner
Walter Guy Howe
Robert Clayton Hull
Roger Ebinger Huntington
Hector Sydney Ingram
Valdemar Jensen
Martin Loryn Johnson
Eldon Lemoin Knox
Leo Harris Kundert
Harry Brumfield Laird
Nils Iwan Lamby
Edwin Lawrence Langdon
Garnett Latham
Floyd DeWitte Leach
Roy Carroll Leach
Herman John Lund
Jay LuVerne McCormick
Charles Roy McCready
Leslie Herbert McIntyre
Frank Arthur Magnuson
Otto Mayer
Mark Millard Menges
Glenn Wilfred Millard
Barnett Mindlin
Frank Raymond Moeller
Matthew Joseph Monahan
Ida Olive Montgomery
James Leonard Morlan
Harry D. Muir
Leroy Albion Myers
Albert Nahas
Clifton Thomas Nichol
Ira Goodsell Nichols
Laurence Earl Nugent
William Arthur Offill
Hirsh Gammil Olshan

Nickolas George Papantonopulos
George Walter Payne
Townsend Adelbert Pearson
Walter Mann Pruyn
Claude Ashbil Putnam
Peter Edward Robinson
Diego Rogers
William Anthony Rowan
Vernon Smutz Rucker
Werner Schumacher
Lee Harrison Shaffer
Alexander Lester Shaw
William Graham Skillen
George Clifford Smith
Homer Arthur Smith
Leon H. Smith
Tom Nelson Miles Smith
Adolph Gustave Sprecher
Karl Elbert Stair
Oscar William Strook
Ralph Sylvester Sullivan
Herman M. Syverud
Dudley D. Tebbs
Arlando Daniel Thompson
James Urquhart Thomson
Andrew Tiernan
Nils Tuveson
Jesse Martin Tyler
Stanley William Ullom
Frederick Wilson Vaughn
David Morris Welcher
Floyd Handy Welden
Floyd Eddy West
Raymond Earley Wheeler
Earl Todd Young

GRADUATE IN MUSIC

Alma Katherine Addy
Irene Adler
Gertrude Carter
Sheldon Burnham Foote

DIPLOMAS FOR MUSICAL PROFICENCY

Selma Marie Bjorgo
Lillian Humfreville
Elizabeth Artlissa Mulholand
Eva Emeline Preston
Maurice Lewis Seaman
Genevieve Ellen Sweet
Ethel May Wright

DIPLOMAS FOR PUBLIC SCHOOL MUSIC METHODS

Merle Ackerman
Blanche Irene Baker
Mary Frances Boyd
Samuel Melzer Cate
James Arthur Combs
Jacqueline Cummings
Kathryn Lily Evans
Cora Daisy Grimes
Iris Marion Hibbard
Ella Jacoby
Zella Blanche Moon
Mary Emma Moore
Mary Josephine Rabette
Ruth Irene Saucerman
Ina Mabel Shane
Susan Sivright
Ella Marie Waite
L. Louese Wheeler

DIPLOMA IN COMMERCE

Carl August Gaensslen
Joseph Henry Gilby
David Himmelblau
Joseph Sebastian Kelly
Frederick Parks Mozingo
Walter Andrew Mueller
Keichiro Nakagami

GRADUATE NURSE, MERCY HOSPITAL

May Belle Adamson
Sarah Altman
Mabel Estelle Beckwith
Daisy Bradley
Frances Elizabeth Brophy
Mae Kathleen Brophy

Rose Elizabeth Buman
Flossie Mae Carey
Ada Loretta Connor
Isadorine Ellen Connor
Agnes Alice Daily
Mary Cecelia Downey
Clara Emerson
Ethel Evelyn Fuller
Florence Cathryn Griffin
Elizabeth Harrington
Clara Ella Hassett
Margaret Hennessy
Frances Hessman
Bessie Angela Kovar
Anna Teresa McCann
Elsie Ray Messberger
Margaret Milue Mitchell
Lillian Agnes Naylon
Anna Genevieve O'Malley
Crystal Amne Parks
Elizabeth Schneider
Blanche Frances Seeger
Agnes Marie Seery
Mary Sheehy
Gertrude Eleanore Soens
Sara Marie Sours
Leonore Loretta Tobin
Florence May Turney
Marie Josephine VanReeth
Blanche Antoinette Welter
Lillian Alice Wyly

GRADUATE NURSE, WESLEY HOSPITAL

Edith Esther Baldwin
Della Elizabeth Brookhart
Euphemia Allison Campbell
Laura Pearl Clapp
Margaret Elizabeth Cummings
Carrie Mary Fenby
Winnifred Mabel Ferguson
Lillian Belle Gage
Cleo deMerode Gregg
Clara M. Heath
Minnie Beatrice Howa
Anna Helena Johnson
Margaret Wilhelmina Johnston
Anna Bertina Knudson
Lillian Ethel Niblock
Ena Jeanette Patterson
Sara Nancy Pettigrew
Esther June Richtman
Ida May Rood
Anna Cole Smith
Olive Mae Talcott
Erna Charlotte Tauber
Eleonore Elsie Wiederanders

Register of Students

Register of Students

College of Liberal Arts and the Graduate School

LIST OF STUDENTS FOR THE ACADEMIC YEAR 1910-1911 WHO REGISTERED AFTER THE ISSUE OF THE CATALOGUE OF THAT YEAR

RESIDENT GRADUATE STUDENTS

Bragdon, Sara Frances.....Evanston
A.B., Northwestern University, 1909

Nimz, Alfred Bernard.....Manitowoc, Wis.
A.B., German Wallace College

UNDERGRADUATE STUDENTS

Ackerman, Merle...Monticello, Ind.
Bruce, Ray Forrest.Garrett, Indiana
Coffey, Roy Calhoun.....Newman
Hilton, Charles Ordway...Evanston
Lennox, Famie Rose.....
.....Marshalltown, Iowa
Lennox, Olive Beatrice.....
.....Benton Harbor, Mich.
Mueller, Albert Christopher.Chicago
Peterson, Ethel.....Maywood
Sorenson, Anna.....Chicago
Waring, Ruth Ann.....Evanston

GRADUATE STUDENTS, 1911-1912

FELLOWS

Cady, Ruth, English Literature.....Evanston
A.B., Northwestern University 1911

Dildine, Harry Glenn, History.....Ionia, Mich.
A.B., Northwestern University 1903

Eddy, Milton Walker, Zoölogy.....Medina, Ohio
B.S., Northwestern University 1910

Hallwachs, John Frederick, Latin.....Tonica
A.B., Northwestern University 1911

Merritt, John Wesley, Geology.....Fallon, Nev.
B.S., Northwestern University 1910

Roosa, Omar Errol, Psychology.....Winchester, Ind.
B.S., Northwestern University 1911

*Staples, Harry Nelson, Chemistry.....Rockford
A.B., Morningside College 1907

Vanderblue, Homer Bews, Economics.....Chicago
A.B., Northwestern University 1911

Waring, Celia, English Language.....Kansas City, Mo.
B.S., Northwestern University 1911

Werner, Oscar Helmuth, German.....Adams, Neb.
A.B., Central Wesleyan College 1910

GRADUATE SCHOLARS

Frick, Flora Margaret, German.....Indianapolis, Ind.
A.B., Butler College 1911

Little, Aaron James, Mathematics.....Milwaukee, Wis.
B.S., Northwestern University 1911

Munakata, Hachro, Economics.....Kuradate, Japan
A.B., Simpson College 1910

Nickerson, Eva Waters, English Literature.....Onarga
A.B., Northwestern University 1908

Shearer, Hallie Irene, Botany.....Chicago
Ph.B., University of Rochester 1905

Young, Ina Electa, Greek.....Chicago
A.B., Northwestern University 1911

RESIDENT GRADUATE STUDENTS

Booth, William Claude, English Language.....Morris
A.B., Northwestern University 1903

Bradley, Alvin Percy.....Evanston
B.S., Northwestern University 1910

Broehl, Leland Peter, Law.....Pana
A.B., Northwestern University 1910

Buck, Caroline Edna, English Language.....Evanston
A.B., Ohio Wesleyan University 1908

Buckborough, Siegel A., Chemistry.....Evanston
A.B., Harvard University 1903; M.S., University of Chicago 1910

Campbell, Gilbert Lewis, Economics.....Monica
B.S., Northwestern University 1909

Chambers, Raymond, History.....Evanston
A.B., Northwestern University 1911

Davies, John Rees, Chemistry.....Racine, Wis.
B.S., Carroll College 1911

Derby, Horace Mann, History .....Sidell
A.B., Northwestern University 1904

Dickson, John Luther, Philosophy.....Park Ridge
B.D., Yale Divinity School 1908; A.M., Yale University 1910

Duncan, Stella Louise.....Whitefish, Mont.
A.B., University of Montana 1907

*Deceased.

Ellis, Cora Belle, German.....LaGrange
A.B., Northwestern University 1906

Gates, Ruth Helen.....Wilmette
A.B., Northwestern University 1908

Gibson, Earl Stewart, Physics.....Evanston
A.B., Northwestern University 1909

Glass, James LeRoy, History.....Wichita, Kans.
A.B., Southwestern College 1911

Green, Hugh Parker, Law.....Nashville
A.B., Illinois College 1909

Grigsby, Earle DeVerne, Law.....Blandinsville
A.B., Hedding College 1908

Hake, Joseph William, Physics.....Hoyleston
B.S., Central Wesleyan College 1907; A.B., University of Illinois 1909

Hardy, Clarion DeWitt, English Literature.....Evanston
A.B., Dakota Wesleyan University 1903

Henderson, Irene Marie, English Literature.....Ottawa, Kans.
B.S., Ottawa University 1911

Hennessey, Enid, Zoology .....Evanston
B.S., Northwestern University 1908; M.S., 1909

Hildebrand, Louis Ernest .....Evanston
A.B., University of Indiana 1904; A.M., Northwestern University 1909

Ho, Yen Sun, Education.....Chicago
A.M., University of Pekin 1907

Hoffman, Richard Yates, Law.....Chicago
B.S., Hobart College 1907

Hohn, Gottlieb Christian, German.....Warrenton, Mo.
A.B., Central Wesleyan College 1902

Hollister, Lucius Clark, Biblical Literature.....Chicago
A.B., Albion College 1904

Holmes, Merrill Jacob, Philosophy.....Indianola, Iowa
A.B., Simpson College 1908

Hubbard, John Darrow, Law.....Lake Forest
A.B., Lake Forest University 1909

Johnson, Douglass Montgomery, English Language.....St. Louis, Mo.
B.S., Northwestern University 1911

Jordan, Orvis Fairlee.....Evanston
A.B., Eureka College 1899

Kirkpatrick, Blaine Evron, Psychology.....Raub, Ind.
A.B., Northwestern University 1910

Koch, Sumner Leibnitz, Anatomy.....Chicago
A.B., Hamline University 1908

Large, John Henry, Law.....San Jose, Calif.
A.B., Leland Stanford Junior University 1910

Lauer, Ernest, Semitic Languages.....Beatrice, Neb.
A.B., Iowa Wesleyan University 1908

Lease, William Henry, Economics.....Evanston
A.B., Morningside College 1907

Liu, Ching Shu, Philosophy.....Nanking, China
A.B., University of Nanking 1909

Long, Albert Stoneman, Law.....Chicago
A.B., University of Chicago, 1909

McClure, Charles Sherman, Biblical Literature.....South Whitley, Ind.
A.B., Northwestern University 1909

Marsh, Clarence Stephen, History.....Seattle, Wash.
A.B., Northwestern University 1910

Minnich, George Arthur, Law.....Coon Rapids, Iowa
A.B., University of Iowa 1910

Nimz, Alfred Bernhardt, German.....Manitowoc, Wis.
A.B., German Wallace College 1910

Olmstead, Clarence Eugene, History.....Genoa
A.B., University of Illinois 1911

Perkins, John Wesley, German.....Chicago
A.B., Earlham College 1909

Pieyre, Gaston, English Literature.....France
Lic ès. Lett., University of Bordeaux

Price, Margaret Wilmot, History.....Chicago
A.B., Northwestern University 1910

Rinkel, John Arthur, Philosophy.....Sleepy Eye, Minn.
Ph.B., Central Wesleyan College 1904

Rostock, Benjamin Franklin, German.....Evanston
A.B., Northwestern University 1910

Sandberg, Gertrude, English Literature.....Kasota, Minn.
A.B., Gustavus Adolphus College 1908

Schnable, George LeRoy, Chemistry.....Chicago
B.S., Northwestern University 1911

Sjöström, Vera, Romance Languages .....Sundwall, Sweden
A.B., Northwestern University 1910; A.M., 1911

Smith, Edith Gorsuch, History .....Evanston
B.S., Northwestern University 1907

Smith, Jessie Comfort .....Chicago
A.B., Vassar College 1907

Stanwood, Elizabeth, History.....Evanston
A.B., Vassar College 1908

Thompson, David Grosh, Geology.....Evanston
A.B., Northwestern University 1911

Traxler, Inez .....Evanston
A.B., Northwestern University 1910

Ullrick, Laura Foster, History.....Evanston
A.B., Northwestern University 1903; A.M., 1904

Verbeck, Marjorie May, English Literature.....Freeport
A.B., Northwestern University 1911

Walker, John Daniel, English Literature.....Chicago
A.B., University of Nebraska 1908

Watson, Charles Hamilton, Law.....Monon, Ind.
A.B., Northwestern University 1909

Watson, Lewis Martin, Law.....Monon, Ind.
B.S., Northwestern University 1909

Watson, Louis, Theology.....Audubon, Iowa
A.B., Simpson College 1908

Wedell, Axel Leonard, Greek.....Chicago
A.B., Northwestern University 1911

Wendland, Charles John, Law.....Chicago
B.S., Northwestern University 1909

Westbrook, Ira Edward, Law.....Mansfield, Mo.
A.B., Northwestern University 1910

Winslow, Charles Spaulding, Economics.....Evanston
A.B., Northwestern University 1898; A.M., 1899

Wood, Laura Willard, English Literature.....Santa Fe, N. M.
A.B., Ottawa University 1911

Yeaton, Walter James, Geology.....Livingston, Mont.
A.B., University of Montana 1909

UNDERGRADUATE STUDENTS

CANDIDATES FOR A DEGREE IN JUNE, 1912

Ade, Ardis.....Kentland, Ind.
Aldrich, Benjamin McCall..Chicago
Armstrong, Howard Joseph..Chicago
Baertschy, Della.....Dubuque, Iowa
Bailey, Ruth P...New Richmond, Ind.
Baker, Avis..Cape Girardeau, Mo.
Baker, Bessie Louise.....Glencoe
Ballard, Virginia Sallie.....Chester
Bannister, Ruth Delia.....Evanston
Barnes, Alice May.....Evanston
Barnes, Flavel.....Pratt, Kans.
Beall, Florence Yolande..Princeville
Beckington, Lulu Belle....Belvidere
Bedell, Guy William.....Thomson
Bentley, Daisy.....Normal
Benton, Marjorie Stillwell..
.....Indianapolis, Ind.
Best, Leta Maude.....Freeport
Blattner, Helen Harland...
.....South Pasadena, Calif.
Booz, Edwin George.....Evanston
Boswell, Clarence Henry..Rockford
Bothwell, Ada.....Clay City
Boyington, Pearl Leone....
.....Petoskey, Mich.
Broad, Esther.....Buffalo, N. Y.
Broad, Hazel Ruby.....Evanston
Brodfuehrer, Oscar Matthias.Chicago
Brown, Algy Glen.....Ava
Byrant, Mabel Capitola....
.....LaCrosse, Wis.
Bullis, Carlton Henry.....
.....Milwaukee, Wis.
Bunch, Jesse William..Thayer, Ind.
Burkhardt, William Zahn..Chicago
Cameron, James Roy.....Alexis
Camp, Cecil LeRoy Espanola, Wash.
Campbell, Donald.....Clinton
Campbell, Fanchen.....Chicago
Carwardine, John Chester...LaSalle
Cassavaw, Josephine.....Chicago
Cederholm, May Eva.....Chicago

Chamberlain, Grace.....Chicago
Chesnutt, Jay Leroy.....Chicago
Cleworth, Beulah Rose.....Chicago
Corbett, Clifton Sherwin..
....Edwardsville
Crampton, Ethel Maria....Evanston
Curry, Anna Helen....Oregon, Mo.
Dale, John Theodore.....Winnetka
DeBord, Bessie Myrtis....Princeville
Dewhirst, Floyd Everett.....Noble
Drew, Alberta Lizbeth.....Joliet
Dwinnell, Merrill McAllily...Peoria
Eastman, Ruth.....Evanston
Ferguson, Carrie Blanche....Morris
Flack, Grace Lola.....Chicago
Fletcher, Abbott Lee.....Rantoul
Frank, Glenn.....Kirksville, Mo.
Franks, Paul Raymond.Garrett, Ind.
Fraser, Bruce Ernest.....Chicago
Frye, Mary Vance.....Capron
Gamble, Gula Elma.....Evanston
Gibson, Ralph Shaffer.....Evanston
Greene, Percy Clark.....Evanston
Haist, Virginia Ethel.....
.....Manton, Mich.
Hale, Helen Gertrude.....
.....Highland Park
Hall, Laura Downton.....
.....Prairie du Chien, Wis.
Hamilton, Jean.....Chicago
Hammer, Fern Waugh....Evanston
Harper, Ethel Maude.....
.....Laurium, Mich.
Harris, Abram, II.....Evanston
Harvey, Mary Gertrude....
.....Spokane, Wash.
Haubold, Clara Theresa....Chicago
Hawley, Lillian Emeline....Huntley
Henderson, Irene Marie.....
.....Ottawa, Kans.
Hiestand, Elizabeth.....Chicago
Hiller, Ernest Theodore.....Chicago
Hinds, Mildred Emma.....Peotone
Hinds, Milford Everett.....Peotone
Hobart, Marcus Hatfield...Evanston
Hoover, Albert Cyrus..Genoa, Nebr.
Hotchkiss, Mary Camilla...
.....Fox Lake, Wis.
Howard, Bess Margaret....
.....Redfield, So. Dak.
Hurtt, William LeRoy..Leipsic, Ohio
Huss, Olive Grace.....Jacksonville
Jacobsohn, Herman.....Chicago
Jamison, Michal Velma...Monmouth
Jenkins, Roger Philip.....Peoria
Jennings, Elmer.....Sterling
Jewett, Hazel Templeton...Evanston
Johnson, Iver Magni...Racine, Wis.
Johnson, Mary Charlotte....Chicago
Kahlo, Corinne.....Evanston
Karst, Elsa Emelie.....Wilmette
Keating, Florence Alice....Evanston
Kercher, Cora .....Goshen, Ind.
Kimbell, Elizabeth Marion..Chicago
King, Loraine Trotwood.Oregon, Mo.
Kramm, Evelyn.....Aledo
Kranebell, Wilbur Raymond...
.....Albert Lea, Minn.
Lamke, Earl John.....Evanston
Lathrop, Georgia Louise....Chicago
Leacock, Lilian.....Chicago
Leander, Eric Gabriel.....Macomb
Linn, Earl Smith....Des Moines, Ia.
Linowiecki, Anthony Joseph..Chicago
Lison, Marguerite Marie...Evanston
Lobanoff, Vera Theodore..Wilmette
Lugg, Thomas Bransford..Rossville
McCarty, Carolyn Young....Tuscola
McClurg, Grace Katherine.Lima, O.
McCulloch, Bert Carlyle..Evanston
McGrew, Lois Axtell.....Chicago
McNeill, Malcolm Rivers..Evanston
McNett, Blanche.....Chicago
Markley, Meta Goldsmith..Chicago
Marsh, Jesse .....Evanston
Matlack, Edith Lillian.....Rockford
Mercer, Herman Josiah.....Wyanet
Merrill, Wallace Trescott...Carbery
Mettler, Florence Elizabeth....
.....Tiskilwa
Millholland, Paul..Indianapolis, Ind.
Moore, Aubrey Shannon....
.....Hendrysburg, Ohio
Morgan, Lucile.....Evanston
Moss, John Butler.....Wheaton
Moulton, Everett Crockett..
.....Fort Smith, Ark.
Movius, Walter Robert....
.....Lidgerwood, N. Dak.
Murphy, Zita Mary.....Chicago
Myers, John Calvin.....Lena
Nagl, Marie.....Glen Ellyn
Nash, Mabel Catherine....Evanston
Nickerson, Rosemary .....Onarga
Nye, Russell G.....Agency, Iowa
Nyquist, Reuben Emil.....Moline
Obenchain, Ralph Riley....
.....South Whitley, Ind.

Patten, Helen Prindle.....Evanston
Paullin, Frances Anne....Evanston
Pease, Elma Alpha..Huron, So. Dak.
Pederson, Oluf Johan.....
.....Audubon, Minn.
Penberthy, Vera Ethel.....Chicago
Perkins, Marion Glidden..Wilmette
Perry, Hazel Belle.....Dundee
Phelps, James Manley.....Chicago
Pierce, Cornelia .....Chicago
Pope, Mary Howe.....Evanston
Pope, William Cooke....Waukegan
Porter, Rebecca.....Reinbeck, Iowa
Power, Caroline Marguerite
.....Enid, Okla.
Pritchard, Fannie Isabelle..Geneseo
Prouty, Ida Evangeline....
.....Des Moines, Iowa
Raeder, Marguerite.....Evanston
Reese, Ernest August.Hubbard, Iowa
Reppert, Myrtle Sarah.....
.....Burlington, Ia.
Richardson, Robert.....Evanston
Roberts, Florence.....Evanston
Robertson, Janet Elizabeth..Chicago
Rochfort, Theresa Vera....Evanston
Ryan, Marie Lois.....Lockport
Samuelson, Verna Rosalind....Elgin
Schee, Florence.....Indianola, Iowa
Schreiner, Caroline H.....Chicago
Schuster, Rudolph Samuel...Chicago
Sellers, Horace Bruner.....Elgin
Shedd, Harriett Emerson...
.....Rensselaer, Ind.
Shurtleff, Helen.....Wilmette
Silvius, Delwin Harold....
.....Hampton, Ia.
Smith, Harry Elijah.....Macomb
Smith, Vera Alice.....LaPorte, Ind.
Stevens, William Blue.....Chicago
Townsend, Zora....Lake City, Iowa
Tucker, James Dustin.....Evanston
Ullerick, Helen May.....Chicago
Urbain, Lea Fantine.....DuQuoin
Wallace, Clarence Earl.....
.....VanWert, O.
Ward, Ruth Florence.....Evanston
Watt, Esther May.....Chicago
Weese, Robert Peter.....
.....Huntington, Ind.
Wells, Miriam....Wauwatosa, Wis.
Wernicke, Marie Agnes.....Chicago
West, Maude Isabelle.....Loda
Whitelaw, Olive Stanton....
.....Buffalo, N. Y.
Whitmore, Maude Decelle...Ottawa
Widney, Charles Earl..Melrose Park
Williams, Lucy Marie.....Evanston
Wise, Oliver Cady.....Maywood
Yaple, George Skiles.....Virginia

JUNIORS

Abraham, Elizabeth.....Normal
Arragon, Reginald Francis..Chicago
Ashby, Bertha.....Ladoga, Ind.
Baird, Wilbur Stanley.....Peotone
Ball, John Rice.....Orland
Ballew, William Murray...
.....Corydon, Iowa
Baylie, Carolyn Isabelle.....Chicago
Beddow, Bernice Ione..Waukon, Ia.
Benjamin, Chester Nelson..
.....West Chicago
Betts, Edna Ellsworth.....Evanston
Blair, Charlie Eugene.....
.....Claremont, Minn.
Blodgett, Vesta Electa.....Chicago
Boddy, Mildred..Chattanooga, Tenn.
Boettcher, Edna Rosalie....Evanston
Bonbright, James Cummings
..... Evanston
Bragdon, Merritt Caldwell.Evanston
Brant, Arthur Dartnell.....
.....Riverside, Calif.
Bray, Edith Elizabeth Mary
..... Waukegan
Breeden, Richard Gilchrist
.....Lewiston, Ida.
Brown, Russell Elbert.....Ava
Busby, Edward Brinkerhoff..
.....Magnolia
Carlson, Mary Isabel.....Princeton
Carlson, Robert Clarence.....
.....Brooklyn, N. Y.
Carr, Charles Lewis.....Quincy
Caster, Ursula..Crawfordsville, Ind.
Chase, Margaret Edna.....Evanston
Chase, Wilbur P.....Toulon
Christie, Mabel Hope.....Chicago
Clark, Harold Johnson.....Evanston
Coble, Elmer Christian Daniel
..... Oswego

Cockrell, Frank Parsons....
.....Oswego, Kans.
Conover, Crystal.....Wheaton
Cormack, Joseph Marshall..
.....Grand Prairie
Crawley, Helen Williams...Chicago
Crippen, Harriet Faye.....
.....Cherokee, Ia.
Crouse, Sara Elizabeth Dibert
.....Norwood, Pa.
Cunningham, Barclay William..
.....Kansas City, Kans.
Davis, Marjorie Henderson..Chicago
Dennis, Leah Augusta..Dubuque, Ia.
Denton, Allen Eugene.....Sheller
Eckert, Fred William.....Chicago
Eldridge, Byron Henry, Jr..Evanston
Elsdon, Cythera.....Chicago
Erikson, Myrtle Millicent...
.....Crystal Falls, Mich.
Farnham, Irene Gaylord...
.....Laurium, Mich.
Foerster, Freya.....Highland Park
Fordyce, Frank Winfield...
.....Guthrie Center, Iowa
Fox, Amy Alice.....Belvidere
Frantz, Eula May.....Paw Paw
Frei, Mildred.....Reinbeck, Iowa
Fuller, William Green.....Galva
Galpin, William Freeman..
.....Muskegon, Mich.
Gaskins, Nina.....Harrisburg
Gifford, Gertrude Matoaka..
.....Evanston
Gleason, Randall Homer....Chicago
Grant, Louise Ray Preston..Chicago
Graves, Nelle Amelia.....
.....Abilene, Kans.
Graves, Nathaniel Van.....Chicago
Green, Elsie Fuller.....
.....Kansas City, Mo.
Greene, Fern Emily.....Woodstock
Greenwell, James Rollie..
.....Mt. Sterling
Haefliger, Eleanor Elizabeth.
..... Princeton
Hard, Mary.....Van Wert, Ohio
Harlow, Frank Arthur.....Chicago
Harrison, Faith Stone.....LaGrange
Haviland, Fred Hobert.....Aurora
Heatherington, Alexander...Chicago
Hedge, Harry Malcome.....Chicago
Hein, Gordon Egan....Pueblo, Colo.
Helsel, Paul Richard....Pratt, Kans.
Hicks, John Donald....Buffalo, Wyo.
Hine, Marjorie.....Savannah, Mo.
Hobart, Elizabeth.....Evanston
Hoffman, Clara Louise.....Chicago
Holcomb, Anna Faye.....Hinsdale
Holden, Florence Elizabeth....
.....LaGrange
Holmberg, Hilda Christina..
.....Centreville, So. Dak.
Holton, Margaret Bacon....
.....Indianapolis, Ind.
Howell, Fanny.....Fairmont, Minn.
Hughes, Hilda Wallace.....
.....La Grange, Ind.
Hummel, Gertrude Anna....Chicago
Johnson, Andrew Nedessen
.....Sparta, Wis.
Johnson, Dora.....North Loup, Neb.
Johnson, Irene Alice.....Chicago
Justice, William Arthur.....Chicago
Kappes, Sallie Belle.....Evanston
Kerr, Fred Laird.....Chicago
Kohin, Mary Millicent.....LaSalle
Kraft, Eva Mae.....Towanda
Lamke, Raymond Charles..Evanston
Landon, Clare.....Chicago
Loehr, Adele Marie.....Carlinville
Long, Lester Lemuel.....Toulon
Loomis, Edna Reigart.....Chicago
Lynch, Lucille Anna.....Rockford
McBroom, Ethel.....Woodstock
McCague, Margaret Harriet.Chicago
McCulloch, Hugh Waugh..Evanston
Marks, Harry Carl.....Chicago
Marks, Vernia.....Beloit, Wis.
Mars, Gladys Anne.....Kenilworth
Marxsen, William Bartenick..
.....Chicago
Moore, Ruth Mary.....Rockefeller
Moscrip, Jessie Erskine.....
.....Milwaukee, Wis.
Nevitt, Mildred Eva.....Bradford
Newton, Henrietta.....
.....Crown Point. Ind.
O'Harra, Eda Laura.....Macomb
Orlady, Horace Page..Durand, Wis.
Pearson, Pauline.....Argyle
Perry, Lois Kennedy.....
.....Crawfordsville, Ind.
Petersen, Max Heinrich.....Dundee
Peterson, Jedediah Earl..Mesa, Ariz.
Petty, Martha Elizabeth....Chicago
Ranney, Susan.....Seaton
Ray, Lloyd Carlyle.....Rockefeller

Rendelman, George Franklin..Anna
Richardson, Mary Frances..Chicago
Riley, Bessie....Arkansas City, Ark.
Robertson, Donald Grant...Evanston
Robins, FitzJames .....Ianthe, Mo.
Ryan, Helen Hortense.....Pontiac
Scanlan, George....Brooklyn, N. Y.
Schloesser, Harry Eugene...Chicago
Schmeisser, Martha Emma..
.....Calumet, Mich.
Scott, Florence Margaret....Chicago
Shafer, Viola Elsa.....Evanston
Shafer, Violet Mary.....Evanston
Shearer, Viola Evelyn.....Wyoming
Shenk, Arthur Balentine..
.....Monticello, Ind.
Shields, Ruth Myrtilla.....Evanston
Siberts, Sara Miriam.....
.....West Liberty, Iowa
Skewes, Helen.....Wilmette
Smith, W. R. Stafford...Niles, Mich.
Southwick, Elizabeth.....Chicago
Southworth, Raymond Gurton .....Danville
Stanberry, Helen Clark....Evanston
Straub, Mila P. B.....Evanston
Strickler, Grace Adele..Keokuk, Ia.
Sturgis, Coa May Irene....
.....Muskegon, Mich.
Taylor, Walter Clyde.Almena, Kans.
Thomas, Grace Winsor.....
.....Red Oak, Ia.
Thompson, Marguerite.....Wilmette
Tink, Robert Wesley..Brooklin, Ont.
Vail, David Linton..Milnor, N. Dak.
Voorhees, Edith Naomi.....
.....Davisburg, Mich.
Wackerbarth, Neva Ruth..
.....Independence, Iowa
Walker, Blanche Vera.....Cicero
Walsh, Percy Hammond....Chicago
Weller, Edward.....Waterloo, Ia.
Wells, Harry Lumn...Coshocton, O.
Whiteside, Samuel Eugene..
.....Evanston
Wilcox, Leila Belle.....Princeville
Wilson, Harold LeRoy.....
.....South Fargo, N. Dak.
Wooden, Robert Edgar.....
.....Centerville, Iowa
Zurawski, Elizabeth Winifred
.....Burlington, Iowa

SOPHOMORES

Ackerburg, Harry.....Chicago
Albright, Lisle Murillo..Edison Park
Aldrich, Charles A.....Evanston
Allen, Geraldine Lenore.Laurens, Ia.
Anderson, Coila Marie.Preston, Minn.
Andrews, Elizabeth.....
.....Vermillion, S. Dak.
Aoi, Michi.....Okayama, Japan
Arnold, Frankie Elizabeth....Galena
Armstrong, Martha Christena .....Princeville
Arragon, Alexander Vasey..Chicago
Aspegren, Herman Wendell
.....Saronorth, Neb.
Atwell, William Joseph....Evanston
Baker, Margery Mae..Allegan, Mich.
Baker, Rannie Belle.....
.....Townley, Mich.
Beaton, Matthew Angus, Jr...
.....Chicago
Beck, Martha Elizabeth.....Glencoe
Beers, Catherine Virginia..Evanston
Bellinghausen, Marie .....Peru
Bergeson, Albert Rufus.....Leland
Betts, Karl Sawtelle....Clinton, Mo.
Blair, Mary Constance.....Winslow
Bloodgood, Ruth Salter.....Aurora
Boardman, Ethel Lee.....
.....Arkansas City, Kans.
Booz, Charles Stevenson.Reading, Pa.
Boren, Charles Henry.Marinette, Wis.
Borton, Helen Wills.....Evanston
Bottum, Gilbert.....Chicago
Broadwell, Stuart .....Springfield
Browning, Ruth Estelle....Evanston
Burdick, Earl Franklin.....Chicago
Burland, Agnes.....Chicago
Butcher, Mary Elizabeth....Fairdale
Campbell, Helen Conner....Chicago
Campbell, Horace Graham..Clinton
Carlson, David.....Marinette, Wis.
Carlyon, Katherine Forest..
.....Painesdale, Mich.
Carpenter, Niles, Jr.....Evanston
Carroll, George Charles....
.....Garrett, Ind.
Chapin, Florence Augusta....Chicago
Chapman, Helen Hoagland.Evanston
Chase, Helen Myers.....Toulon
Clancy, Velma Clare.....Chicago

Clark, Florence Fisher....Evanston
Clemes, Stanley Wilson....Evanston
Cole, Henry Hubert,..Winterset, Ia.
Collins, Anna Blatchford....Chicago
Collis, Emma Olsen..Williams, Iowa
Coon, Claude Hubbard....Rockford
Coplin, Josie Eva.....Hebron, Ind.
Corbin, Florine Cleo.....Washburn
Cowing, Luella Anna.....Joliet
Cozzens, Klea Gertrude....Chicago
Cromer, John Alden....Troy, Ohio
Cruzen, Roy Ellis.....Walnut Hill
Davidson, Katherine Lee.....
.....Memphis, Tenn.
Davis, Elizabeth Clayton...
.....Milwaukee, Wis.
Dawson, Mary.....Rochester, Ind.
Dean, Hazel .....Rollo, Mo.
DeCelle, Elise.....Evanston
Decker, Helen Marie.....Chicago
DeVilbiss, Bessie Beatrice..
.....Fort Wayne, Ind.
Dick, Elmer Jewell.....Chicago
Drake, Leah.....Elkhart, Ind.
Eakins, Mary Eleanor.....
.....Jersey City, N. J.
Eaton, Jonathan Chase.....
.....Fargo, N. Dak.
Ellis, Leon.....Spokane, Wash.
Ennis, Robert.....Evanston
Evans, Edgar James..Braddock, Va.
Everett, Charlotte Reed..Kenilworth
Faber, Mildred Lenore.....Mendota
Flack, Charles Earl.....Macomb
Flick, Oka S.....Alanson, Mich.
Forman, Edna Laura.....Zion City
French, Charles Lemuel....
.....Pendleton, Ore.
Fuller, Julia Lehigh.....Chicago
Fuller, Margaret.....Evanston
Fulton, Roy Robert.....
.....West Liberty, Ia.
Furness, Dwight Rodgers...
.....Jalisco, Mex.
Goessle, Ruth Joyce.....Chicago
Goodsmith, Howard Moulding
..... Chicago
Goodsmith, Ruth .....Chicago
Graham, LeRoy William....Aurora
Grantham, James .....Evanston
Gray, William Jasper..Warrensburg
Greer, Howard Clark.....Evanston
Griscom, Ellwood, Jr.....
.....Moorestown, N. J.
Haines, Vera.....Lake Bluff
Hakes, Marie .....Evanston
Hall, Calvin N.....Gallatin, Mo.
Halpin, Lois Mae.....Chicago
Hamilton, Mabel.....Chicago
Hanson, Marion Kathleen...Chicago
Hardy, Noah Phillip.....La Grange
Hawley, Florence.....Chicago
Hebblethwaite, Frank Prior..
.....Evanston
Hedrich, Arthur William...Chicago
Henson, Zelda.....Villa Grove
Hester, Evett Dorrell.....Chicago
Higley, Harvey VanZandt.Glen Ellyn
Hildebrand, Florence Ruth..Chicago
Hilton, Joseph K.....Chicago
Holcomb, Bertha .....Evanston
Holler, Effie Pearl.....Macomb
Holmes, Orville Hugh.....Chicago
Holmgren, Carl....Borgvik, Sweden
Horning, Helen Morton Barker.
.....Evanston
Houston, Gertrude.....Joliet
Hurt, Ruth Anna....Chanute, Kans.
Hutchinson, Esther....Ottumwa, Ia.
Hyslop, Clayton James...Blair, Wis.
Ilgenfritz, Edwin K.....Boone, Iowa
Inkster, Charles.....Herscher
Irwin, Alma Mabel.....Oak Park
Jacobsen, Inger Amala.....Chicago
Jenkins, Catherine Elizabeth Chicago
Johnson, Alice Irene.....Chicago
Johnson, Delbert Kimmins..
.....Latrobe, Pa.
Johnson, Edward Amer....Evanston
Johnson, George Walter....Chicago
Johnson, Marcus.....Park Ridge
Kaar, Ruth Amanda.....Princeton
Kelley, Lewis Monson.Marquard, Mo.
Keeney, Ruth Margaret.....
.....Tecumseh, Mich.
Kenner, Arie Opal.....Macomb
Kerr, Kathren Marguerite..
.....Waukegan
Kimball, Maurine Winifred...Elgin
Kindig, Geraldine Hull....
.....Monticello, Ind.
Kitterman, Lydia Catherine.Tiskilwa
Kittle, Roy Leslie.....Crystal Lake
Klatt, Armella Angela.....Lincoln
Kletzing, Russell Redfield...Chicago
Knudson, Irving Jacobs.....Chicago
Kramer, Arthur John.....Galena
Lambert, Jessie.....Chicago

Lane, Louise Ruggles.....Glencoe
Lefever, Earl Wilson....
.....Mt. Gilead, O.
Letzter, Margaret Catherine.
..... Evanston
Lewerenz, Amanda.....DesPlaines
Lewis, Llewellyn Roy.....Mexico
Liddil, Fonrose....Blanchester, Ohio
Lind, Esther Charlotte.....Aurora
Logan, Ruth.....Evanston
Loing, Fern Marguerite...Belvidere
Long, Lothar Raymond....Evanston
Loveland, Gilbert Francis..
.....Hamburg, Iowa
Luge, Florence Elizabeth....
.....Cherokee, Ia.
Luther, Mary Louisa.....Walnut
McCallum, George Mena..
.....Hesperia, Mich.
McCord, Edwin Alphonso..Danville
McCosh, Macemerson....Mt. Morris
McDonald, Elmer.....Odell
Maclear, Mary Abigail....Evanston
Macpherson, Margaret Anderson
.....Evanston
Marriner, Catherine Elizabeth..
.....Menominee, Mich.
Martens, Eva Elizabeth....
.....Franklin Park
Martin, Ruth.....LaPorte, Ind.
Mason, Helen Iris.....Evanston
Mason, Inez Dora..Mansfield, Conn.
Mealiff, Ethel Helen.....Chicago
Meers, Edith Gertrude.....Evanston
Merrill, Leila Virginia.....Evanston
Miller, Bessie Adelsperger
.....South Bend, Ind.
Miller, John Marshall.....Aurora
Milroy, Donald Grant.....Chicago
Mohrman, Linda.....Chicago
Monahan, Homer Waddington
.....Darlington, Wis.
Moore, Walter Stegeman....
.....Allegan, Mich.
Moschel, John Elliot.....Washburn
Moser, Helen.....Eldora, Iowa
Myers, Sybil Ruth....Sheldon, Iowa
Nading, Frieda Elizabeth..Yorkville
Neff, Leroy Neal.....Ridgeway, Mo.
Nelson, Caryl Linder.....Chicago
Nelson, Charlotte Christine..
.....Chicago
Nichols, Louise MacCaeen..Evanston
Noren, Alfred Paul..Pierre, S. Dak.
Norris, Earl Clement.....Evanston
Oates, Henry Franklin..
.....Iowa Falls, Ia.
Olsen, Hazel.....Aurora
Olson, Evalyn.....Winona, Minn.
Paddock, Helen Abigail....Evanston
Pearson, Hazel Beatrice....Chicago
Penrose, Helen Josephine.....Elgin
Peterson, Ethel Pauline....Maywood
Peterson, Ruth Katharine..
.....Dubuque, Iowa
Phipps, Park, Jr.....Evanston
Pierson, Edith Mae.....LaMoille
Platt, Emily Belle.....Chicago
Pope, Helen Jessie.....Wilmette
Porter, Ruth.....Mt. Pleasant, Iowa
Portman, Margaret.....Chicago
Powers, Loraine Margaret..Chicago
Pratt, Howard Fels.....Chicago
Preston, Genie Johannah...
.....Strawberry Pt., Iowa
Prouty, Frances.....Des Moines, Ia.
Pruen, Eleanor Orpha..Washington
Purnell, Ruth Elizabeth..W. Chicago
Randolph, Gertrude Opal....Onarga
Rapp, Ruby.....Evanston
Riebel, Vera Antoinette.....Chicago
Riggs, Edith Lillian..Des Moines, Ia.
Rivard, George Jay, Jr...Assumption
Roberts, Marion.....Wilmette
Robinson, Jessie Ruth..Hampton, Ia.
Robinson, Mildred....Austin, Minn.
Robinson, Muriel Edith.....
.....Bombay, India
Round, Glen Edward.Maquoketa, Ia.
Rulifson, Genevieve Lillian..Chicago
Sanders, Charity Anne.....Ottawa
Sanders, Ruth.....Evanston
Sauer, Frank Joseph.....Evanston
Scanlan, Florence Irene.....
.....Michigamme, Mich.
Scheuber, Selma Florence...Chicago
Schoch, Ignatia Katherine.....Elgin
Scott, Clarence Lesley..Red Oak, Ia.
Scott, John Colwell..Marinette, Wis.
Sharer, Charles Wentworth
.....Mt. Morris
Shaw, George Washington.
.....Muskegon, Mich.
Sheardown, Rex Winton....
.....Winnipeg, Man.
Shepard, Frank.....Delphi, Ind.
Shepard, Warren .....Chicago
Shipman, Helen Briggs....Evanston

Shultz, Edith .....Chicago
Shultz, Helen Virginia....
.....Delphi, Ind.
Simonsen, Adele Evangeline..
.....Melrose Park
Sluss, Harriet.....Tuscola
Smith, Edwin Oscar....Suiter, Ohio
Smith, Lyle Haven.....Rock Island
Smith, Robert.....Chicago
Smith, Silas Raynor.....Joliet
Smothers, Isaac Alonzo.....Rossville
Soderholm, Rebecca Elizabeth
..... Chicago
Sonnen, Helene Anna.....Evanston
Spies, Chester Boeck.....Creston, Ia.
Steffey, Arthur John.....Stronghurst
Steuart, Marjory.....
.....Washington, D. C.
Stevens, Clara Anna.....Chicago
Stewart, Martha.....Rossville
Stodola, Amy.....Chicago
Stowe, Harriet Lida.....Belvidere
Swasey, Helen.....DeKalb
Sweet, Frances .....Evanston
Tabler, Frank Henry.....Morris
Taylor, James.....Evanston
Taylor, Samuel.....Evanston
Tedrick, Floyd Newman...
.....Hartford, Mich.
Thomson, George Franklin.
.....Craig, Mo.
Thornley, Charlotte Margaret
.....Perry, Iowa
Tomblin, Beulah Elizabeth..Aurora
Truitt, Beulah.....Tuscola
Tuck, Albert Edward....
.....Greeley, Colo.
Tuttle, Helen Bertha.....Berwyn
Twichell, Clarence Watson..Chicago
Uhlhorn, Florence Louise...
.....Downers Grove
Van Horne, Marjorie.....Evanston
Van Vlissingen, Arthur, Jr...Chicago
Vawter, Jessie Mae.....
.....Benton Harbor, Mich.
Verbeck, Vera Viola.....Freeport
Vernon, Elleanor Eugenia...Chicago
Voris, Katherine.....Neoga
Wagner, Frederick Cortland
.....Chesterton, Ind.
Wallace, Archibald Greene..Chicago
Wallace, Frank Irwin.....
.....Kearney, Neb.
Wallace, Raymond McKee..Chicago
Walton, Arthur Calvin.....Chicago
Wandrack, Martin Joseph....
.....Woodstock
Warner, Frances Marian...Rossville
Warrick, Walter Dempsey..Evanston
Weaver, Louise Content.....Chicago
Wells, Norma Mae.....Evanston
Werts, Clarence Beryl.....Evanston
West, Edna May.....Loda
West, Ruth Sarah.....Loda
Westwick, Bella Elizabeth...Galena
Wheaton, Clayton Cook.....Chicago
Wheeler, Elliot.....Evanston
Wheeler, Harriet.....Oak Park
Wheelock, Sara Grosvenor..
.....Evanston
White, Charles Paul.....Brooklyn
Whitehead, Ely Locke.....Evanston
Whittle, Gladys Alberta....
.....Waterloo, Ia.
Wiley, Besse Lois....Edgerton, Ohio
Will, Benjamin.....Chicago
Wilson, Ruth Suzanne.....Evanston
Winchell, Dorothy.....Chicago
Worden, Laura Belle.....Harvard
Wright, Merle Leslie.....Piper City

FRESHMEN

Abbott, Leila May.....Woodstock
Adams, Marjorie.....Belvidere
Aitken, Douglas.....Prescott, Ariz.
Allen, Blanche.....Rockfield, Ind.
Allen, Wayne Lee.....Pontiac
Argraves, Wendell Oliver..Compton
Balch, Gladys Irene.....Evanston
Bartz, Clarence William...
.....Stevensville, Mich.
Bass, Alice Luella.....Walnut
Beach, Clayton William.....
.....Muskegon, Mich.
Beard, Halard Rogers.....Chicago
Beard, Mabel Lewis.....Petersburg
Beeler, Paul Rowland.....Chicago
Belknap, Charlotte Brainard
..... Evanston
Benedict, Georgia Katherine
..... Kenilworth
Berglund, Ruth Eugenia.....Chicago

Berryman, Elnora..Dodgeville, Wis.
Blomquist, Edwin Oscar.....Chicago
Bollman, Fred.....Gas City, Ind.
Braden, Hortense.....Wabash, Ind.
Brand, George Douglas....
.....St. Paul, Minn.
Brickman, Ruth Louisa....Eldora, Ia.
Bridge, Isabelle.....Evanston
Brown, Glenn Harold.....Oakland
Brown, Matalea.....Chicago
Bryant, Harold Burr.....Clinton, Ia.
Burch, Arthur Courtenay...Evanston
Burke, Florence Mary.....Chicago
Cady, Loris Vaughn....LaPorte, Ind.
Campbell, Mark.....Chicago
Carpenter, Claire Harold...
.....Cadillac, Mich.
Chan, Fung Chee..Hongkong, China
Chapman, Walter Case.....Evanston
Clague, Elsie Beatrice....Winnetka
Combs, Herbert Lee.....
.....Canon City, Colo.
Cook, Edith.....Geneseo
Cook, Maude Ethel.....
.....Arkadelphia, Ark.
Cooper, Kathryn.....Kenosha, Wis.
Corlett, Bernice Ann.....Chicago
Corlett, Clara Edith.....Evanston
Courrier, Ernest Adolph.Wells, Minn.
Covington, Elmer S.....Watseka
Cozad, DeArcy Lelah.....
.....Kansas City, Mo.
Craig, Helen Truesdale...LaGrange
Crosby, James Melvin.....St. Anna
Crow, Horace Harker....Kenton, O.
Cunneen, Agnes Marie....Wilmette
Curry, Ethel Susan.....Pueblo, Colo.
Davies, Orville .....Chicago
Davis, Onner Duncan.....
.....Mishawaka, Ind.
Dean, Miriam Chaffee.....Evanston
Dean, Russell.....Milwaukee, Wis.
DeGroff, Elizabeth May..Princeton
Dennis, Donald W.....
.....Sioux Falls, S. Dak.
Dickey, Pearl.....Albion, Mich.
Ditto, Vivian.....Joliet
Donahoo, James Harrison....Moline
Donlin, Phyllis Rosemond...Chicago
Doyle, Myra Belle.....Henry
Dueringer, Stella Florence.....Elgin
Dunbar, Roy Spencer...Sparta, Wis.
Duncan, Helen.....Chicago
Durham, Edith.....Oak Park
Earl, Hazel .....Evanston
Eldrenkamp, John .....Chicago
Ellis, Sherman Kingsbury....Chicago
Elmer, William Hart.....
.....Davenport, Iowa
Emerson, Lawrence.....
.....Kellerton, Iowa
Erickson, Edna Margaret...Chicago
Farr, Joyce Ermille.....
.....Muskegon, Mich.
Fenske, Fred Albert.....Chicago
Ferguson, Charles Raymond..Morris
Ferris, Leslie Charles.....Evanston
Feser, Raymond Leonard.Lyons, Wis.
Fisk, George Towner.....Chicago
FitzSimons, Ruth .....Evanston
Flack, Eugene.....Chicago
Flynn, Marie Alice.....Chicago
Follett, Justin Percival...Libertyville
Forbes, Lowell Lynn..Jefferson, Iowa
Forsen, Ethel Violet.....Chicago
Franks, Harvey Chester.....Chicago
Frederickson, Evelyn.....Chicago
deFreitas, Jesse Affonso..Springfield
Friestedt, Luther Dufour....Chicago
Gale, Ethel Russell.....Evanston
Gannon, Roy Hampton....Hoopeston
Gifford, Vera.....Chicago
Gilmore, Florence.....Angola, Ind.
Gleeson, Jules..Independence, Iowa
Glidden, Alland Goodwin..Cabot, Vt.
Goddard, Joseph Nathaniel..
.....Evanston
Goltra, Lois Whaley.....Evanston
Goltra, Sidney Ellison.....Evanston
Graham, Arthur.....Chicago
Graham, Florence Anna....
.....St. Paul, Minn.
Gray, Adelaide .....Morrison
Gray, Cammie.....Kansas City, Mo.
Green, George Taylor.....Freeport
Griner, Mertie Luella.....
.....Middleburg, Ind.
Grotefeld, William August..Chicago
Guild, Hester Thompson..
.....Arlington Heights
Haase, Edward John..Oshkosh, Wis.
Halushka, Gertrude.....Chicago
Hanson, Walter Peter.....Chicago
Harkness, Nathan James....Chicago
Harries, Zera Randall.....Chicago
Harris, Edna Rose.....Evanston
Harrison, Constance.....LaGrange
Hart, William Parker.....Joliet

Hartmann, Louise.....Chicago
Harwood, Lillian May....Evanston
Harwood, Thomas Armine..Evanston
Hastings, Mary Alice.....Cairo
Heffley, Donald Carlos.Mentone, Ind.
Henline, Ralph Gregory....
.....Kearney, Neb.
Hermes, Katherine Margaret..
.....Evanston
Herrick, George Fielding...Chicago
Hesla, Irene.....Prescott, Ariz.
Heyerdale, Frederick Christian
.....Rochester, Minn.
Hightower, Wilbur Edward..
.....Altus, Okla.
Hill, Eleanor Houston.....Evanston
Hodgkins, Katharine Bubier
.....Wilmette
Holgate, Eleanor.....Evanston
Hollister, Edna Blanche..Barrington
Hostetter, Eunice Lillian...Chicago
Houlehan, Ruth Martha....
.....Crawfordsville, Ind.
Howard, Edith.....Oregon
Hull, Clark Arthur..Fort Scott, Kans.
Humbert, Nora.....Evanston
Isherwood, Helen Louise....
.....West Chicago
Jackson, Florence May.....Freeport
James, Maurice Alton.....Evanston
Jamison, John Franklin....Evanston
Jennings, Marion.....Sterling
Johnson, Lester Dean.....Evanston
Johnson, Oscar Emanuel...
.....Stillwater, Minn.
Jordan, Robert Ellis....Barton, Wis.
Jorgeson, Margaret Dorothy..
.....Park Ridge
Judson, Marjorie Lucile....
.....Escanaba, Mich.
Julian, Correll Marcellus...Chicago
Kaiser, Alice Mackenzie....Chicago
Kauffman, Karl.....Chicago
Kellogg, Marjorie.....Chicago
Kelly, William Earl...Toledo, Ohio
Kennedy, Lenore Marguerite.
.....Evanston
King, Florence Josephine....Chicago
King, John.....Harvard
King, Maude Vernice.....
.....Kearney, Neb.
Kletzing, Evelyn Loubelle..Chicago
Kline, Carrie Gertrude....Evanston
Knapp, Leila.....Evanston
Knutson, Carlot Oliver.....
.....Kloten, N. D.
Krueger, Harold Arthur....
.....Wausau, Wis.
Lane, Maurine Barr.....Chicago
Lane, Ruby Belle.....Chicago
Lazear, Doris Cornelia....Evanston
Leaming, Marjorie...Highland Park
Leigh, Harry.....Sparland
Lewis, Helen Margaret....
.....Rhinelander, Wis.
Lewis, Louise Benedict....Evanston
Lewis, Marion Holmes.....Evanston
Linderman, Vivian Willard. Marengo
Logan, Mildred Glen.....
.....Kansas City, Mo.
Lundin, Edith Amelia.....Chicago
McCabe, Ruth Marquand..Evanston
McCrary, Warren Encell...
.....Lake City, Iowa
MacDonald, Charlotte..Laporte, Ind.
Macdonald, Florence.....Evanston
McDonald, Hazel Florence..
.....Kenilworth
McDonald, Susan Peake....
.....Coffeyville, Kans.
McKerchar, Roy Malcolm..
.....Owosso, Mich.
McNair, Frances Dwight..Evanston
McWilliams, William B....
.....Ithaca, Mich.
Manuell, Harriet Emma....Galena
Marsh, Roy Simpson..Seattle, Wash.
Martin, Dorothy.....Chicago
Martin, Estella.....Wilmette
Mason, Mabel Alice.....
.....Des Moines, Iowa
Mauer, Roy Thornell.....
.....Council Bluffs, Iowa
Melvin, Ruth.....Mound City, Mo.
Mendsen, Jessie Madeline..Evanston
Messelhiser, Amiel Roy....Hampton
Meyer, William Frederick, Jr.
.....Arlington Heights
Miller, Gottlieb Charles..Barrington
Mills, Donald Keith..Zionville, Ind.
Milsted, John Holst.Davenport, Iowa
Minch, Verna.....Chalmers, Ind.
Montgomery, Ruth Margaret
.....Maryville, Mo.
Moody, Helen Rose.....Chicago
Moore, Andrew Jamieson..
.....Manitoba, Can.
Moore, Gladys.....Morris

Morris, Harold Orville.....Evanston
Moulton, Jane Marion.....Wilmette
Mullen, Russell.....VanWert, Ohio
Nelson, Ethel King.....Chicago
Newlove, Florence Beverly..
.....Des Moines, Iowa
Nicholson, Naomi .....Chicago
Noack, Emelie Marie.....Chicago
Noggle, Gladyce Ione..Waterloo, Ia.
Nourse, Wynn Abbott.Tacoma, Wash.
Nuzum, Leland.....Viroqua, Wis.
O'Brien, John Leslie.....Chicago
Odell, Lillie Ruth.....Chicago
Osborn, Howard Grenell...
.....Coldwater, Mich.
Overstreet, Weller Riley....
.....Kansas City, Mo.
Paddock, Bruce Brydia.Prophetstown
Page, John Lewis.....Wilmette
Paletz, Nettie Ethel.Rensselaer, N. Y.
Parritt, Marie.....Chicago
Paul, William Glae..Prescott, Ariz.
Petersen, Elfrieda.....Winnetka
Peterson, Charles Philip..Mesa, Ariz.
Peterson, John Thorwald....Chicago
Petterson, Marie.....Ephraim, Wis.
Pfeiffer, Mildred.....Rochester, Ind.
Phillips, Helen.....Chicago
Pierce, Iola Elizabeth.....Belvidere
Pierson, Leland Virden....Wilmette
Plagge, Newton Oliver...Barrington
Pond, Jessie A.....DeKalb
Pound, Frances.....Chicago
Ralston, David Elmer.....Argyle
Reichardt, Karl August Andreas
..... Chicago
Reynolds, Gordon Arthur..
..... Prophetstown
Richardson, Jean Mildred..Evanston
Richardson, Ruth Imogene...Chicago
Riley, Charles..Arkansas City, Kans.
Roberts, Thomas Humphrey
..... Waterman
Robertson, Anna Christine..Morrison
Roeser, Simeon.....Chicago
Rollins, George Alcuin.....
.....Milwaukee, Wis.
Rood, Ruth.....Toledo, Ohio
Row, Victor Putnam.....
.....Curry's Crossing, Ont.
Ruby, Myrtle.....Bethany, Mo.
Russell, Hazel.....Wilmette
Sadler, Madeline Annie.....Elgin
Sandall, Grace.....Burlington, Iowa
Schlosser, Cecilia.....Ottawa
Schmidt, Donald.....Chicago
Schwartz, Edwin Reuben..
.....Marinette, Wis.
Scott, George Walter.....Aurora
Seewald, Sidonie Katharene
.....St. Louis, Mo.
Shaffer, Allyn Moore.....Chicago
Sheridan, Mary LaMar....
.....Kansas City, Mo.
Shirk, Lydia Emmeline.....Chicago
Shute, Ada Thomasin.....Ottawa
Simmons, Joseph.....Bluffton, Ind.
Skinner, Helen.....Wilmette
Smith, Bertha.....Ocala, Fla.
Smith, Cyril McNutt..Zionville, Ind.
Smith, Floyd Tere.....Alma, Mich.
Smith, Z. Lynne.....Wilmette
Snider, Venus Mildred..Hamlet, Ind.
Southard, Eunice Lillian.....Elgin
Speck, Maude Elizabeth...Oak Park
Spencer, Rose.....Chicago
Splinter, Caroline.....Chicago
Springer, George Durant.Evarts, Vt.
Springsteed, Jessie Allen...Sheridan
Stafford, Helen.....Mankato, Kans.
Stafford, Lewis Holden....
.....Mankato, Kans.
Stafford, Russell Horton....Wilmette
Stallsmith, Welton.....Chicago
Steele, Ruby Belle.....Fowler, Ind.
Stockton, George Alva..Toledo, O.
Storm, Fern.....Mokena
Swank, Clyde Hubert.....Chicago
Swartz, Jerrold Franklin...Evanston
Sweet, Zenana.....Evanston
Synwolt, Royal John.....Chicago
Talmage, Morris.....Chicago
Tatley, Clara Geraldine....
.....Bismarck, N. Dak.
Taylor, Arthur.....Wilmette
Templeton, Blanche Ivene..Oak Park
Thomson, Marjorie Ruth....DeKalb
Thornburrow, Mary Isabelle
.....Wetmore, Kans.
Thorsen, Arthur Valdimar.Winnetka
Townsend, Benjamin Harrison
.....Mt. Carmel
Traxler, Dean Lake.....Evanston
Trowbridge, Jessie Gray...Evanston
Truscott, Basil Reginald....
.....Rosario, Arg.
Umphrey, Ruth.Benton Harbor, Mich.
Urbain, Lottie Octavia....DuQuoin

Vehe, Walter Charles.....Chicago
Vernon, Samuel Shaw.....Elgin
Vincent, Esther Hayes.....Chicago
Walter, William Wesley...Evanston
Walters, Grover.....Nauvoo
Walton, Ruby LaVerna.Scales Mound
Ware, Edward Newell.....Chicago
Waterman, Ella Marie.....
.....Creston, Iowa
Webb, Esther.....Chicago
Weese, Mildred Purviance..
.....Huntington, Ind.
Weis, Leroy Louis.....Reddick
Wells, Marie.....Maryville, Mo.
Wessman, Raymond.....Chicago
Whittle, Harold Floyd.Waterloo, Ia.
Wickman, Adolph.....Wilmette
Wight, Mabel Augusta...Springfield
Wilcox, Florence Marguerite
.....Hammond, Ind.
Wilcox, Margaret Dana....Chicago
Williams, Helen..Cambridge, Ohio
Wilson, Augustus Wackerbagen
..... Chicago
Wooden, John Crawford....
.....Centerville, Iowa
Wright, Quincy Lorenzo....
.....Tennyson, Ind.
Young, Frank Walls.....Chicago
Zander, Johanna.....Chicago
Zebell, Frank James.....Odell
Zimmer, Leah Rhodes...Perry, Iowa

SPECIAL STUDENTS

Allen, George Brannan.....Cary
Baker, Hosea Henry.....Metropolis
Bentley, Louise .....Chicago
Berti, Titus Nicholas.....Chicago
Bowman, Leverette Ellsworth
..... Chicago
Butler, Nora.....Evanston
Byrnes, Agnes Mary Haddon
..... Evanston
Chandler, Edith Blanche...
.....Austin, Minn.
Dumke, Emma Charlotte....
.....New Holstein, Wis.
Edson, Floy.....Austin, Minn.
Fernald, Robert Witham....Chicago
Griffith, Viola.....Danville
Grubb, Lucile Esther.Mauston, Wis.
Hale, Frances Arnold.....
.....Highland Park
Hankins, Oren.....Camden, Ind.
Hardy, Ione Elizabeth.Lansing, Mich.
Hartman, Louise .....Chicago
Hilander, Arthur Conrad..
.....Sister Bay, Wis.
Hollen, Cora Alice..Eau Claire, Wis.
Howard, Katherine.....Glencoe
Hurford, Frances.....Glencoe
Johnston, Wayne Alven..Champaign
Kearney, Winifred .....Evanston
Lawson, John Walton.....Evanston
McCague, Mary.....Omaha, Neb.
McFadden, Maud.....Evanston
McGillen, Josephine F.....Chicago
Mathewson, Linn Nelson...
.....Macedonia, Mich.
Mitchell, John Minton...Carbondale
Norton, M. Therese.....Evanston
Ogilvy, Jessie Frances.....
.....Seattle, Wash.
Pardee, Roy Eugene..Bear Lake, Pa.
Pearson, Axel Gottfried....Evanston
Pease, Anna Gerle.....Chicago
Reed, John Watford.....Chicago
Rittenhouse, Edna .....Evanston
Roberts, Sidney Mitchell....Chicago
Sefton, Florine....Greensburg, Ind.
Sexauer, Mae Magdalen...Belvidere
Simonds, Gertrude Elnora...Chicago
Steever, Frances.....Highland Park
Strom, Nanna Hildora.....Chicago
Swenson, Arthur J.....Evanston
Templeton, Ethel Maria....Chicago
Ullman, Jacob Martin.....Chicago
Williams, Lois.....Highland Park
Wilson, Helen Louise.....Chicago
Wollender, C. G. .....Chicago

STUDENTS IN SUMMER SCHOOL, 1911, NOT INCLUDED IN OTHER LISTS

Adair, Gertrude.....Evanston
Anderson, Meta.....Chicago
Arundell, Gladys.....Chicago
Black, Mareta.....Elgin
Clapp, Elizabeth.....Evanston
Clapp, James.....Evanston
Cook, Laura.....Evanston
Coolidge, J. K.....Kenilworth
Curran, Nannie M.....Chicago
Davis, Norma.....Evanston

DeLany, Mary E.....Chicago
Dunn, George R....Princeton, Minn.
Duncan, John.....Macon, Georgia
Ferstl, Edmund.....Hubbard Woods
Gay, Douglas.....Evanston
Gibson, Merle E.....Amasa, Mich.
Graves, Charles.....Chicago
Griffin, Alice J.....Evanston
Hanson, Chester.....Chicago
Hayes, Florence.....Evanston
Hessel, Adele.....Escanaba, Mich.
Hodge, Bessie.....Elkton, S. Dak.
Holzer, Mar.....Platteville, Wis.
Howell, Isabel.....Evanston
Justice, J. Caleb.E. Greenwich, N. J.
Liang, C. S.....Canton, China
Mackenzie, Helena.Calgary, Alberta
MacWhorter, G. A.....Evanston
Mayes, Catherine.....Chicago
Nitchie, Katharine.....Evanston
O'Neill, Sara B.....Chicago
Patterson, Margaret.....Chicago
Riggs, Ora M.....Chicago
Roberts, Louise.....Evanston
Shelley, Mary B.....Chicago
Stevens, D. H.....Evanston
Tallmadge, Abby.....Evanston
Tomhagen, Edith.....Chicago
Trenbeth, Janet M.....Evanston
Underhill, Volney.....Wilmette

The Medical School

REGISTER OF STUDENTS, 1911-1912

FOURTH YEAR

Abramsky, William Alexander .....Illinois
Arndt, Harry William...Minnesota
Ausman, Carl Frederick..Wisconsin
Badcon, Sidney Watson.....Utah
Bane, William Mathews..Colorado
B.S., Princeton University
Beeson, Henry Bush.....Illinois
M.D.
Benyas, Nathan Morris...Wisconsin
Bleifuss, Walter Franklin.Minnesota
B.S., Northwestern University
Bohling, Bernard Stanton.....Iowa
Boren, John William.....Wisconsin
B.S., Northwestern University
Boswell, Harry Dillman..Oklahoma
B.S., University of Nebraska
Boyer, Charles Oliver.....Oregon
M.D.
Bucher, Claude Earl .....Wisconsin
Campbell, Guy Edward..Minnesota
Cartwright, Emor Lopp.....Ohio
Chase, Martin Rist.....Illinois
M.S., Northwestern University
Christoph, Carl Henry.....Illinois
Clarke, Thomas.....Wisconsin
A.M., Marquette University
Cooper, Thaddeus Constantine.Iowa
Cummins, Erwin Jeptha..S. Dakota
Darling, John Chester.....Oklahoma
M.S., University of Oklahoma
Davis, James Robert.....Missouri
Devers, Washington Irving.S. Dakota
Dorr, Addison Michael...Wisconsin
Eberhard, Frederick George.Indiana
Eckstein, Arthur William.Minnesota
Ph.B., University of Minnesota
Flack, William.....Ohio
Flynn, Leo Howard.....Illinois
Freed, John Elias.....Indiana
Goenne, William Carl.....Iowa
Goodman, Jacob.....Illinois
Ph.G., University of Illinois
Hagerty, Thomas Walter....Illinois
Hallberg, John William...Michigan
Hankins, Harry Gordon...So. Africa
Harrington, Raymond Regan.Illinois
Hayes, Daniel Francis.....Illinois
Heidel, Cecil Theodore...Minnesota
Heller, Frederick Merwin..Colorado
B.S., Northwestern University
Heller, Matthew, Jr.....Kansas
D.D.S., Northwestern University
Hirschle, Harry Griffith.....Illinois
Hoesley, Henry Franklin....Illinois
Jaros, Joseph Francis .....Illinois
Johnson, Roy Winton.....Illinois
B.S., Central College
Kane, Louis .....N. Dakota
A.B., Creighton University
Kappelman, Fred William.Wisconsin
Kinney, Fred Johnson.....Iowa
Klamt, Anton Karl .....Nebraska
Ph.G., Fremont College of Pharmacy
Knapp, Arthur Leroy.....Indiana
B.S., D.D.S., Valparaiso University
Laraway, Charles Riley.....Iowa
Macer, Clarence Guy.....Indiana
Markson, David Edmund....Illinois
Marrs, Frederick Adison.....Illinois
Ph.G., Purdue University
McGuire, William Aloysius..Illinois
A.B., St. Viateur College
McLaughlin, Warren Bastian .....Illinois
Michael, Herman Charles...Indiana
Ph.G., University of Iowa
Moss, Charles Taylor.....Illinois
A.B., University of Illinois
Mostrom, Henning Theodore.Illinois
Neal, William Bartle.....Oregon
A.B., University of Oregon
Nolan, Thomas James.....Illinois
Ph.G., Northwestern University
Oliver, Marcus Solomon.....Iowa
Ovitz, Ernest Gayheart...Wisconsin
Packard, Robert Goodale...Colorado
A.B., University of Colorado
Parks, Charles William....Nebraska
Porter, James Arthur .....Iowa
Ph.G., Highland Park School of Pharmacy
Roche, Richard Ambrose.....Illinois
Samson, Bernardo..Philippine Islands
Ph.G., Northwestern University

Sissakian, Kerope Hartin...Nebraska
A.B., Robert College, Constantinople, Turkey
Smith, Charles Henry .....Illinois
Sullivan, Charles Peter.....Illinois
Taylor, William Ray.....Oregon
Thompson, William John..Wisconsin
Tilton, Welcome Blaine....Missouri
A.B., William Jewell College
Turner, Gus Burton .....Illinois
Van Alstine, Guy.....So. Dakota
B.S., Dakota Wesleyan University
Wedel, Frank Leroy .....Indiana
Whitaker, Ben Tallman.....Iowa
Woodward, Frank Albert..Montana
Yonan, Nabey.....Persia
A.B., M.D., Uroomian College; Durmia College, Persia
Zeisler, Erwin Paul.....Illinois
A.B., University of Chicago

THIRD YEAR

Alderson, Albert Lee.....Illinois
Bartling, Carl Herman.....Illinois
Bell, James Stewart.....Nebraska
Bolstad, Herbert Clarence...Illinois
Boodel, John Cullen.....Illinois
Boody, Fred Joseph.....Iowa
Breitling, Carl Adolph.....Illinois
Brown, Earle Godfrey.....Kansas
Burke, Gordon.....Canada
A. B., University of Washington
Conley, Willard Thomas.....Iowa
D.D.S., Northwestern University
Curtis, George Nathaniel.....Utah
Curtis, Roswell Goodrich.....Illinois
Drew, Arthur Wheeler...So. Dakota
Ph.G., S. Dakota Agricultural College
Farnham, Henry Rathbun.....Ohio
Felts, Harvey Austin.....Illinois
Fenn, George Karl.....Wisconsin
Gray, Herbert Weir.....Illinois
Griffin, Patrick Joseph....Minnesota
Gueffroy, Herman August.So. Dakota
Hammond, Francis Peery.....Utah
Hawthorne, Roy Otway.....Illinois
Hilton, Joseph Jacobson.New Mexico
Hobart, Wilson Keith.....Kansas
Hogue, Hal Wyman.....Ohio
Hudson, Harry Hackney.....Kansas
Hunt, Charles Everett....No. Dakota
Hutter, Charles George.....Illinois
Isacowitz, Harry Theabus....Illinois
Jamieson, Roy Ross.....Minnesota
Ph.C., University of Minnesota
Kahn, Jacob.....Illinois
Kleinmann, Francis.....Minnesota
Lezama, Joseph Elias.....
.....British West Indies
Lybyer, Paul Carroll.....Indiana
B.S., Purdue University
McKenna, Charles Hugo.So. Dakota
Magee, Ira Joseph.....Iowa
M.Di., Iowa State Normal School
Morrill, Louis Grant.....Michigan
Nadler, Walter Herman.....Illinois
B.S., Northwestern University
Nedry, Galen Claudius....Wisconsin
Nilsson, Martin Morris...So. Dakota
O'Brien, Louis Thomas.....Indiana
Pfeifer, Andrew Saemann.Wisconsin
Pfeifer, Edward Charles..Wisconsin
Phalen, Charles Stephen.....Illinois
Ph.G., Northwestern University
Piper, William Albert.....Illinois
Printy, Emmett Anthony....Illinois
Rest, Oscar Walter.....Iowa
A.B., Charles City College
Rosenblum, Philip.....Illinois
Ryan, Albert Freeman.....Tennessee
Scantleton, John Martin...Wisconsin
Scott, Russell Adams.....Indiana
A.B., Lake Forest College
Shiveley, Franklin.....Illinois
Siegel, Abraham Morris.....Illinois
Spilman, Harold Augustus.....Iowa
Stafford, Charles Floyd..Washington
Ph.C., University of Washington
Vangsness, Ingmar.....Minnesota
Van Hook, Forest Clyde.....Illinois
A.B., University of Illinois
Young, Joseph Howard...Wisconsin

SECOND YEAR

Alder, Clay .....Kansas
Ph.C., University of Kansas
Allen, David Kimball.....Utah
Barancik, Henry .....Illinois
Bell, Hubert .....Nebraska
B.S., University of Nebraska

Black, George De Alton.....Ohio
Boswell, Clarence Henry.....Illinois
*Brenton, Perley Raymond, M.D., College of Physicians and Surgeons, San Francisco, Calif. ..... Washington
Crofton, Joseph Francis.....Canada
Dargan, Clarence.....Illinois
A.B., St. Ignatius College
Dawson, Julian .....Georgia
A.B., Fisk University
Denton, William.....So. Dakota
DD.S., Northwestern University
Doktorsky, Philip Harry.....Illinois
Dudman, Virgil.....Illinois
B.S., Illinois Wesleyan University
Eldred, Charles Dudley.....Illinois
Ph.B., Yale University
Graham, Otis Lee.....Ohio
Grogan, John Sebastian.....Illinois
B.S., Knox College
Handmacher, Walter.....Illinois
Hanson, Edward.....Wisconsin
Kriechbaum, Walter Philip....Iowa
Kurtz, John Jacob.....Michigan
Lebowitz, Joseph.....Illinois
Linowiecki, Anthony Joseph..Illinois
Lowell, Harry Matthew.....Illinois
Moulton, Everett Crockett..Arkansas
B.S., Northwestern University
Palmer, Lester Joerg....Washington
Paulsen, Thomas Christian.Louisiana
B.S., Louisiana State University
D.V.M., Chicago Veterinary College
Paulus, David Dave.....Wisconsin
Peterson, Henry Ellis.....Minnesota
Ph.G., University of Minnesota
Pierce, Charles Harrison..Minnesota
Pittman, Flake Harry.....Illinois
Priem, Harry William.....Iowa
B.S., Northwestern University
Prout, Robert Ira Cole.....Michigan
Redmon, James .....Illinois
Rosenstiel, Max.....Illinois
Shaweker, Max .....Ohio
Ph.C., Ohio Northern University
Slominski, Harry .....So. Dakota
Smith, Robert Emmett.....Illinois
Stiers, John Wilford.....Colorado
Sturgeon, John Howard.....Kansas
Thornton, John William.....Iowa
Towey, John William....Minnesota
Vehe, Karl Leroy.....Illinois
Wood, Cyrus Boynton.....Illinois
B.S., Northwestern University
Zimmermann, Harold.....Illinois

FIRST YEAR

Ash, Henry Seymour.....Wisconsin
Bressner, Walter Arthur.....Illinois
Caveney, Martin William....
.....Massachusetts
A.B., Holy Cross College
Deneen, Frank.....Illinois
Doust, Horace Tyner....Washington
Dummer, William Martin.Minnesota
Easterbrook, Floyd Walden..Illinois
B.S., Illinois Wesleyan University
Eaton, Robert William.....Illinois
Elkins, Alfred John.....Georgia
A.B., Atlanta University
Elliott, William Tupper.....Illinois
English, Leo Victor.....Florida
A.B., Howard University
Hedgcock, Andrew J.....Illinois
B.S., Knox College
Herman, Lester Richard..So. Dakota
Hutchins, William Adelbert..Illinois
Jackson, Richard Haywood.Alabama
Kelso, Leon.....Illinois
Knauf, Arthur Raymond..Wisconsin
Kohlhase, Lawrence Henry..
.....Minnesota
Locy, Francis Eastman.....Illinois
Long, Lester Leonard.....Illinois
McClung, John Robinson.....Kansas
B.S., Kansas State Agricultural College
McPheeters, Herman Oscar...
.....Minnesota
Meredith, Loren Kenneth.....Iowa
Miller, Daniel Le Roy.....Illinois
B.A., Mt. Morris College
Morse, William Emsley..So. Dakota
B.S., Dakota Wesleyan University
Murphy, Philip John.....Illinois
B.A., St. Cyril's College

*Matriculated but did not enter

Newcomb, John Elijah.....Illinois
Otten, Frederick Benjamin...
.....No. Dakota
Ph.G., B.S., No. Dakota Agricultural College
Richards, Joseph Lee.....Illinois
Short, Charles Augustus.No. Dakota
Sullivan, Walter James.....Illinois
A.B., St. Mary's College
Sykes, Newman Marion....Alabama
B.S., Fisk University
Whitley, William Richard.Wisconsin
Whitmore, Frank .....Minnesota

FRESHMEN STUDENTS IN EVANSTON

Hobart, Marcus Hatfield.....Illinois
Pederson, Oluf.....Illinois
Rendleman, George.....Illinois
White, Charles Paul.....Illinois

UNCLASSIFIED

Alcock, Nathaniel Graham.Wisconsin
M.S., Northwestern University
Allen, Edward Dewalt.....Illinois
Allen, Laurie Lee.....Virginia
A.B., University of Illinois
Alt, Roy Colony.....Iowa
Bannister, Kimball.....Illinois
B.A., University of Illinois
Bauman, Theodore Andrew..Illinois
Bice, Delmar Foster.....Iowa
Bower, Lester Edward.....Illinois
Bunten, Joseph Cook.....Kansas
Canouse, Le Moyne Kirby.....Ohio
Chamberlain, Klee.....Illinois
Cotton, Wendell.....Wyoming
Cowles, Robert.....Illinois
Del Beccaro, Edward Vincent.Illinois
A.B., St. Ignatius College
Drummy, Anthony Mathias.....Iowa
A.B., St. Joseph's College
Errickson, William.....Wisconsin
Ph.B., University of Minnesota
Fillis, Benjamin Earl.....Iowa
Foley, Walter Edward.....Iowa
Glenn, Thomas Haigh.....Utah
Ph.D., University of Chicago
Hardy, Oscar Roi.....Utah
von Hess, Charles Leonard....
.....Minnesota
M.S., University of Chicago
Honan, William Patrick.....Illinois
A.B., Christian Brothers College
Jacobs, Frederick Casper.....Illinois
A.B., De Paul University
Kidder, William Jerome.....
.....West Virginia
Langenwalter, John Emil....Kansas
A.B., University of Kansas
Morton, Warren Ralph.....Kansas
A.B., University of Kansas
Nyvall, Clarence Ambrose..Montana
Pazdrey, Ivan Constantine...Austria
Perkins, Edgar Verne.....Illinois
B.S., Central Normal College
Postlethwaite, Frank.....Kansas
Rees, Byron.....Utah
Robinson, Franklin Pierce.Oklahoma
Rockwood, Charles Ainsworth
.....Missouri
B.A., University of Missouri
Simpson, Morris Bigelow...Missouri
Sprafka, Andrew Nickolas..
.....No. Dakota
Steele, Pierre Abel.....Illinois
Stelter, Emil Joseph.....Illinois
Stephens, Virgil Ray.....Illinois
M.S., Northwestern University
Tanquary, John Hansford....Illinois
Van Dusen, Arthur.....Oregon
Wise, Oliver Cady.....Illinois

TRAINING SCHOOL FOR NURSES

Abbott, Edna Gertrude, Wesley.....Wisconsin
Acarle, Mary Ella, Mercy...Illinois
Ainsworth, Olive, Wesley....Illinois
Anderson, Jennie Rhea, Wesley.....Illinois
Anderson, Olga Amelia, Wesley .....Mississippi

Axtell, Bernice Bliss, Mercy.Missouri
Bigley, Genevieve Pauline, Mercy.....Iowa
Bruce, Anna, Wesley.....So. Dakota
Bryson, Constance, Englewood .....Illinois
Buckley, Grace, Wesley.....Iowa
Buell, Winifred, Wesley...Michigan
Burg, Augusta, Wesley.....Illinois
Caffery, Mary Catherine, Mercy.....Iowa
Christopher, Anna, Englewood.Illionis
Clancy, Regina Estelle, Mercy .....Wisconsin
Collins, Anna, Wesley....Wisconsin
Cullen, Nora Helen, Mercy.Michigan
Curley, Mary, Mercy.....Michigan
Currier, Berenice, Wesley.....Iowa
Dagarn, Mary Agnes, Mercy .....Missouri
Davidson, Pearl, Wesley.Mississippi
Deakerman, Olive, Englewood .....Illinois
Deardorff, Ida Caroline, Wesley .....Indiana
De Bates, Clara Constance....Iowa
Elton, Caroline, Wesley....Montana
Finch, Jane Elva, Wesley...Illinois
Finefield, Gertrude Mary... Mercy .....Illinois
Fitzpatrick, Mary, Mercy..Michigan
Foster, Minnie, Engelwood...Illinois
Frymire, Alice Mae, Mercy...Iowa
Gallagher, Eleanor Bronston, Mercy.....Ohio
Garvin, Angie Marguerite, Wesley.....Wisconsin
Gaynard, Edith Inez, Mercy..Illinois
Grady, Charlotte Margaret, Mercy .....Illinois
Griffin, Hazel, Englewood.Michigan
Hanson, Inga, Englewood.....Iowa
Hardsley, Velma, Englewood.Indiana
Hayes, Alma Mina, Wesley..Illinois
Heaney, Catherine Raphael, Mercy.....Illinois
Holmes, Laura, Englewood...Illinois
Huntington, Laura Bell, Wesley .....Ohio
Joda, Mary Agnes, Mercy....Illinois
Johnson, Laura, Englewood..Illinois
Johnson, Mina, Englewood...Illinois
King, Edith Mae, Wesley....Illinois
Kochendorfer, Hilda Elizabeth, Mercy.....Illinois
Kridler, Edith Bancroft, Wesley.....Ohio
La Plant, Luella Elizabeth, Mercy.....Minnesota
Lautz, Mary Christina, Mercy .....Wisconsin
McCue, Helen Bernadette, Mercy.....Michigan
McKill, Laura Marie, Wesley.....Illinois
McNamara, Marguerite Stanley, Mercy .....Kansas
McNay, Lela Minerva, Wesley.....Indiana
Metz, Flo Cecil, Wesley.....Indiana
Miller, Bertha I., Wesley....Illinois
Miller, Myrtle Emma, Wesley.....Iowa
Montgomery, Julia Anna, Mercy.....Iowa
Murphy, Mary Alicia, Mercy .....Illinois
Olsen, Emma, Englewood....Illinois
Olsen, Minnie, Englewood...Illinois
O'Neill, Mary Elizabeth, Mercy.....Illinois
Padak, Dorothy Margaret, Wesley.....So. Dakota
Reed, Nan, Wesley.....Illinois
Reynolds, Mayme Cole, Wesley.....Iowa
Robinson, Grace, Wesley....Indiana
Rothman, Clara, Englewood.Missouri
Roy, Margaret Evelyn, Mercy .....So. Dakota
Schaeffer, Agnes Mary, Mercy.....Michigan
Slatterly, Mabel Margaret, Mercy.....Kansas
Smith, Sadie Martha, Wesley.Indiana
Scheller, Helen Marguerite, Mercy.....Wisconsin
Sullivan, Clara Frances, Mercy.Iowa
Schulte, Euphrosine, Mercy..Illinois
Thomas, Josephine Anna, Mercy .....Wisconsin
Thorsen, Edith, Wesley.....Illinois
Todd, Mary Knight, Mercy .....Washington
Weatherhead, Edith Marshall, Englewood.....Canada

Wells, Mabel, Englewood...Illinois
West, Lillian E., Wesley....Illinois
West, Mary Catherine, Wesley.Iowa
Williams, Mabel Beatrice, Mercy.....Illinois
Westland, Emily Annette, Mercy.....Illinois
Woodruff, Laura, Wesley..Wisconsin

Law School

REGISTER OF STUDENTS, 1911-1912

GRADUATE

Hopkins, John Lamar, A.B., University of Mississippi, J.D., University of Chicago .....Chicago
Johnston, William Walter, LL.B., Northwestern University.....Chicago
Wendland, Charles John, LL.B., Northwestern University.....Chicago
Wermuth, William Charles, M.S., LL.B., Northwestern University..Chicago
Whipple, Merrick Ames, LL.B., Northwestern University.....Chicago

THIRD YEAR

Andrews, Othello Franklin, University of Michigan.....Berwyn
Baker, Hosia Henry, Washington University Law School.....Metropolis
Barco, Arthur Udell, A.B., McKendree College, University of Chicago .....Chicago
Baron, Edward Everett, Lewis Institute .....Chicago
Beshoar, Bertram Bruno, Univesrity of Michigan.....Trinidad, Colo.
Bierwert, Don .....Wilmette
Blonder, Edward, University of Chicago .....Chicago
Bowen, Fred Henry .....Chicago
Bramer, Carl Herman, A.B., Beloit College .....Watertown, Wis.
Brennan, Thomas Francis .....Chicago
Broehl, Leland Peter, Northwestern University.....Pana
Clark, Oliver Alphonso, A.B., Atlanta University.....Chattanooga, Tenn.
Cleary, Leo Vincent, A.B., St. Mary's College.....Chicago
Cohen, Jacob .....Chicago
Cohn, Meyer, University of Chicago.....Chicago
Coliopoulos, Emmanuel George .....Chicago
Dawson, Homer Casner, A.B., University of Chicago.....Chicago
Day, Leo Percival .....Chicago
Dreffein, Robert, A.A., Lewis Institute .....Oak Park
Eberstein, Clyde .....Climas, Mich.
Elliott, Edgar John .....West Chicago
Farrell, Edward James .....LaGrange
Fink, Arthur Harry .....Chicago
Fisher, George Farnsworth, A.B., Cornell University.....Winnetka
Follansbee, Merrill Middleton, B.S., Dartmouth College.....Highland Park
Gardner, John Dunham .....Chicago
Geiman, Louis Harold .....Harvey
Gladstone, Meyer Herman, University of Chicago.....Chicago
Graves, Herbert Arthur, A.B., Illinois College .....Neosho, Mo.
Green, Hugh Parker, A.B., Illinois College.....Nashville
Gregory, Tappan, A.B., Yale University .....Chicago
Grigsby, Earle DeVerne, A.B., Hedding College.....Blandinsville

Gurley, Gladstone Eusebius .....Canton, Mo.
Hagerman, Harry Edwin .....Mandan, No. Dak.
Hawxhurst, Waldo, Northwestern University .....Evanston
Hennings, Abraham James, A.B., Lake Forest College.....Chicago
Herman, Maxwell .....Chicago
Herr, Simon .....Chicago
Holmes, Robert Hale .....Chicago
Howard, Earl Edwin, University of Nebraska.....Lincoln, Neb.
Hubbard, John Darrow, A.B., Lake Forest College.....Lake Forest
Huffman, Samuel Madden, A.B., Wittenberg College.....Springfield
Hunting, Richard .....Tolliston, Ind.
Huszagh, Harold, Lewis Institute .....Chicago
Huszagh, Victor Lee, Amherst College .....Chicago
Ingal, Nellie Kenner, Syracuse University.....Poughkeepsie, N. Y.
Jacobs, Lewis Balthaser, Lake Forest College.....Canton
Johnson, Rush Benjamin .....Chicago
Kahn, Louis .....Chicago
Kay, Wilfred Stearns, Northwestern University.....Watseka
Kennard, Perry Garsh, University of Illinois.....Champaign
Keyes, Carlyle Marlett, University of Chicago.....Chicago
Kosmerl, Francis, D.D., J.C., Gregorian University, Italy.....Rogers Park
Large, John Henry, A.B., Leland Stanford Jr. University....San Jose, Calif.
Latham, Talmage Godfrey .....Chicago
Levinski, Alexander .....Butte, Mont.
Lewis, Vernon Eddy, Northwestern University .....Fort Benton, Mont.
Long, Albert Stoneman, A.B., University of Chicago.....Evanston
Lyons, John Cannon .....Chicago
Lyons, Thomas Cannon .....Chicago
Manning, Arthur Francis .....Quincy
Mattinson, Clarence, Culver Military Academy, University of Chicago .....Gibson City
Merrick, Clinton, A.B., Yale University.....Evanston
Mesirow, Benjamin Salmon, University of Illinois .....Chicago
Minnich, George Arthur, A.B., University of Iowa.....Coon Rapids, Iowa
Morgan, George Gurnea, B.S., Wheaton College .....Wheaton
Morheiser, William Matthew, Northwestern University.....Chicago
Munsell, Austin Louis .....Chicago
Murray, Walter Allen, Ph.G., University of Illinois....Traverse City, Mich.
Nelson, Arthur William, Gustavus Adolphus College, Harvard Law School .....Anoka, Minn.
O'Toole, Laurence James, A.B., DePaul University.....Chicago
Padden, Edward James, University of Illinois, University of Chicago.Chicago
Patterson, Arthur Henry .....New London, Conn.
Pincus, Samuel .....Chicago
Pruitt, Raymond S., University of Chicago, A.B., DePauw University .....Evanston
Rehm, Victor Eric .....Chicago
Rehn, Hjalmar .....Joliet
Reinhart, Otto Edwin, Illinois State Normal University.....Freeburg
Reinwald, Charles Anthony .....Chicago Heights
Roberts, Fred Jackson, Albany Law School.....Chicago
Saxton, Floyd, A.B., Indiana University .....Gary, Ind.
Sherrick, Charles Harris, University of Missouri.....Bowen
Shults, Carleton Andrew, Northwestern University.....Chicago

Smith, Otis Edwin, University of Chicago .....Chicago
Snapp, Robert Douglas, University of Michigan.....Joliet
Spence, Theodore Albert .....Chicago
Stahl, Floyd Meloy .....Augusta
Steffen, Walter Peter, Ph.B., University of Chicago.....Chicago
Stevens, William, Northwestern University.....Chicago
Thompson, Glenn Alexander .....Chicago
Thomson, Melville Ray .....Chicago
Thornton, Henry Victor Andrew Percival, University of Pennsylvania, Aurora
Thulin, Fred .....Chicago
Tiedebohl, Edward Robbins, University of Chicago.....Coloma, Mich.
Tucker, Hyman .....Chicago
Watson, Charles Hamilton, A.B., Northwestern University.....Monon, Ind.
Watson, Lewis Martin, B.S., Northwestern University.....Monon, Ind.
Wegg, Donald Russell, Harvard University.....Chicago
Westbrook, Ira Edward, Northwestern University.....Mansfield, Mo.
Wheelock, John Grey .....Hulls

SECOND YEAR

Abbott, Ralph Wesley, University of Illinois .....Canton
Anderson, Edgar Mauritz, University of Illinois.....Batavia
Anderson, Gray, Drake University .....Knoxville, Iowa
Aschinofsky, Herman, University of Chicago.....Chicago
Barker, Will Louis .....DeKalb
Blumberg, Nathan Sidney .....Waukegan
Bown, Glenn Carlton, Lake Forest College.....Waterloo, Iowa
Boyd, Darrell Sulley, A.B., Wesleyan University.....Hubbard Woods
Brady, Wade James, Notre Dame University.....Joliet
Bronston, William Hughes, Peekskill Military Academy.....Lexington, Ky.
Brooks, James William, St. Ignatius College.....Chicago
Brown, Isidore .....Chicago
Bruce, Ray Forrest, Northwestern University .....Evanston
Buckley, Warren Baumann, University of Illinois.....Chicago
Caldwell, Lewis Abe Harry, Mississippi State Normal School..Bowerton, Miss.
Canfield, Wren Manley, Northwestern University, Iowa State
University .....Murray, Iowa
Charnofsky, John Seymour .....Chicago
Clark, Neil .....Prescott, Ariz.
Clinnin, Walter Andrew, Notre Dame University .....Chicago
DeWitt, Jesse, University of Wisconsin .....Montfort, Wis.
Dodge, Donald Davidson, A.B., Princeton University.....Chicago
Early, Benjamin Blackman, A.B., Northwestern University.....Rockford
Fernald, Robert Witham, University of Minnesota.....Chicago
Fish, Cameron, West Point Military Academy.....Chicago
Fowler, Glesner .....Clinton, Iowa
Geringer, Charles Martin .....Chicago
Goldberg, Berthold Laflin, Northwestern University.....Chicago
Gorey, Edward Jerome .....Joliet
Greathouse, Joseph Felix, University of Kentucky.....Versailles, Ky.
Grubb, Paul Nuzum, B.S., Northwestern University.....Mauston, Wis.
Hartman, Flora Madge, A.B., Cornell University.....Bozeman, Mont.
Helweg, Fred Charles .....Fulda, Minn.
Herschel, Paul Emil, Jr., Bradley Polytechnic Institute.....Peoria
Hilton, Charles Ordway, Northwestern University.....Evanston

Hoffman, Arthur Charles, Ph.B., University of Chicago.....Chicago
Hollywood, Thomas Clemens .....Pekin
Hopkins, Harry Ross .....Chicago
Hottinger, William Henry, Jr.....Chicago
Hubbard, Clifford Leo, Northwestern University.....Rock Island
Jensen, Anker Christian, Illinois Wesleyan University.....Ashkum
Johnson, Charles Elmer .....Chicago
Johnson, Lawrence Charles .....Galva
Johnson, William, St. John's Military Academy .....Chicago
Karash, Jacob Adolph .....Chicago
Karcher, Leonard Douglas, A.B., Williams College.....Chicago
Kavanaugh, Herman Loyal, University of Missouri.....New Hampton, Mo.
Kedney, Vause Alvin, Lewis Institute .....Chicago
Lewis, Philip Howard, University of Illinois .....Lawrenceville
Light, Frank Chellis, A.B., Oxford University.....Silver City, N. M.
Lovrien, Ned Royal .....Humboldt, Iowa
Luther, Eugene .....Evanston
McKinney, Thomas McKinney, Miami University.....Chicago
McLaughlin, William Francis, University of Chicago.....Nashotah, Wis.
Macqueen, Winfield Nairn, Lewis Institute.....Chicago
Marks, George Sawin, Ph.B., University of Chicago.....Chicago
Marshall, Alexander Hamilton .....Chicago
Middleton, Samuel Dale, Lewis Institute .....Austin
Morton, Joseph Rolland .....Chicago
Munzer, Richard Theodore .....Chicago
Nelis, Clarence Arthur, A.B., University of Michigan.....Chicago
Nelson, George Howell, Lewis Institute .....Evanston
Nuzum, Harold Nulton, Gonzaga College.....Spokane, Wash.
O'Bryan, Edward, Jr., Yale University.....Chicago
Peterson, Herbert Ebenheart, A.B., Knox College .....Alpha
Powell, Alexander James, University of Illinois, Northwestern University .....Fairbury
Powell, Albert Nicholas .....Chicago
Richie, Clarke Bruce, University of Chicago.....Hinsdale
Ryan, Frank Millington, A.B., Harvard University.....St. Charles
Slakis, Anthony Andrew .....Chicago
Steake, Arthur Henry .....Moth, No. Dak.
Strauschild, Herbert .....Addison
Tait, Melville Stuart, University of Chicago.....Chicago
Templeton, Stuart John, A.B., Williams College.....Oak Park
Tichenor, Myron Hawley, Jr., University of Wisconsin.....Chicago
Waite, Raymond, A.B., Williams College.....Chicago
Ward, Harold Goodman, A.B., DePaul University .....Chicago
Weisberg, Albert .....Chicago
Williams, Temple, A.B., Williams College.....Chicago

FIRST YEAR

Ackerburg, Harry Emanuel, Jr., University of Illinois.....Chicago
Amussen, Victor Smith, University of Utah.....Salt Lake City, Utah
Anderson, Daniel, A.B., Northwestern University.....Swedeburg, Neb.
Bailey, Harry Phillips, Northwestern University.....Princeton, Mo.
Banta, Parke Monroe .....Berryman, Mo.
Barefoot, Charles Ross .....Johnstown, Penn.
Berglund, Edward George, A.B., Northwestern University.....Chicago

Berthold, Carl, St. Joseph's College.....Aurora
Betz, Harry .....Tacoma, Wash.
Bickhead, Frank Rose .....Carthage, Mo.
Blonder, Edward, University of Chicago .....Chicago
Blumberg, Morris Aaron .....Waukegan
Brown, Glenn, Northwestern University.....Ava
Campbell, Mark .....Chicago
Chayes, Edward .....Chicago
Ciralski, Philip Frederick .....South Bend, Ind.
Clark, Raymond Fay .....Monticello, Iowa
Clausen, William Carter .....Aurora
Corcoran, John James, Northwestern University.....Evanston
Cotton, Robert Fay .....Homer
Crighton, John Millar .....Oak Park
Cullen, George Wilfred .....Chicago
Daniels, Max .....Chicago
Dougherty, John Eugene .....Chillicothe
Elworth, Arthur .....Chicago
Fairfield, Charles Henry, University of Denver.....Romeo, Mich.
Faulkner, Ray Francis, St. Viator's College.....Joliet
Fisk, Alan Wallace .....DeKalb
Forrest, William Lucas, St. John's Military Academy.....Chicago
Frankenstein, Solly Katzenberg, Valparaiso University.....Fort Wayne, Ind.
Franks, Harvey Chester .....Chicago
Froberg, John August .....Chicago
Gladstone, Lazas Herman .....Chicago
Glassburn, Vernon Lynn .....Tampico
Glassner, James Joseph .....Chicago
Gleason, Jules, Northwestern University.....Independence, Iowa
Goldstein, Louis Love, University of Chicago.....Chicago
Grover, Mortimer Currey, A.B., Dartmouth College.....Evanston
Guthrie, Seymour Ashley, Massachusetts Institute of Technology...Riverside
Hall, Roy, A.B., Wabash College.....Chicago
Harris, William Joseph, B.S., Northwestern University.....Evanston
Harrison, Sol .....Chicago
Hartman, Harleigh Holroyd, M.A., Lake Forest College.....Lake Forest
Hartman, Wilbur Frederick, University of Michigan.....Belle, Pa.
Heller, Samuel, A.P., University of Chicago.....Chicago
Henderson, Byron, University of Illinois .....Chicago
Hobbs, Philip Brice, Staunton Military Academy.....Oak Park
Huszagh, Kenneth Arthur, Lewis Institute.....Chicago
Jacobs, Harold Harris .....Chicago
Johnk, Frederick August, Northwestern University.....Neosha Falls, Kans.
Johnson, Carl McDaniel .....Hopkinsville, Ky.
Jones, Connice Dale .....Ava
Juvinall, James Robert .....Collison
Kamfner, Joseph, Lewis Institute .....Chicago
Kassel, Samuel .....Chicago
Korshak, Charles .....Chicago
Kross, Michael, University of Illinois.....Elmhurst
Kunze, Albert Fred .....Chicago
Levin, Lester Lewis .....Highland Park
Levy, Sidney, University of Chicago .....Chicago
McCracken, John, A.B., Upper Iowa University.....Fredericksburg, Iowa

Mair, Hugh James .....Batavia
Mayer, David Joseph .....Chicago
Meyer, Walter William .....Chicago
Miller, Arthur LeRobert, University of Illinois.....Arcola
Nelson, Arthur William, Lewis Institute.....Chicago
Nilsson, George Washington, Northwestern University.....Chicago
Obenchain, Ralph Riley, Northwestern University.....South Whitley, Ind.
Oberst, Byron Bay .....Omaha, Neb.
Orr, Arthur, B.S., Princeton University .....Evanston
Padorr, Israel Barnard .....Chicago
Parker, William Henry, A.B., Lincoln University.....Augusta, Ga.
Payne, Paul West, Beloit College .....Wauwotosa, Wis.
Pennish, Lewis Eugene .....Philadelphia, Penn.
Poindexton, Fielding Lewis, Washington and Lee University..Greenlee, Va.
Radican, Thomas Francis .....Joliet, Mo.
Roberts, Earle Ellis, Carleton College .....Steelville, Mo.
Robinson, Ruth Marie .....Morris
Rogers, William Albert .....Newark, N. J.
Rosenberg, Ralph, A.B., University of Michigan.....South Bend, Ind.
Schafer, Charles Henry, University of Illinois.....Mt. Carmel
Seifried, Fred Charles .....Chicago
Seipp, Frederick Christian .....Chicago
Sherwin, Lionel Arthur .....Duluth, Minn.
Siegler, John Adolph Louis .....Chicago
Sment, Vincent Stanley .....LaSalle
Smith, Clarence Philip, Lewis Institute .....Chicago
Smith, Orlo Dean, Northwestern University .....Rock Island
Smith, Sarah .....Chicago
Souers, Glenn Hovey .....Huntington, Ind.
Sterchi, Fred William .....Olney
Stoddard, Edward Woodhull, Lewis Institute .....Oak Park
Stout, Charles Ernest .....Chicago
Sweet, James Gerrans, University of Michigan .....Buffalo, N. Y.
Thomas, Pearl Edward .....Clinton
Thomson, James Wallace, Jr.....Oak Park
Tollinger, Cecil LaVerne .....Avoca
Vail, Donald Potter .....Chicago
Vroman, John Charles .....Chicago
Walker, Walter .....Chicago
Wallinder, Carl Gustav, Augusta College .....Omaha, Neb.
Wandrack, Martin Joseph, Northwestern University.....Evanston
Weber, William Meyer .....Lake Villa
Wenigman, Frederick Julius, A.B., DePaul University.....Chicago

COURSE IN GENERAL PRACTICE

Baker, James C., Northwestern University .....Garrett, Ind.
Bates, Alben Frederick, Lake Forest College.....Elmhurst
Dyer, Charles Furness, University of Illinois.....Hoopeston
Helander, William Eugene .....Chicago
Hoy, Alfred C. .....Naperville
Hochbaum, Edward Abraham .....Chicago
Klein, Edward F., University of Chicago .....Chicago
McDavid, Harold W., University of Chicago .....Chicago
Muehlenbrink, Otto William .....College Point, N. Y.

Peck, George Franklin, University of South Dakota.....Shoshone, Wyo.
Peifer, Edwin Tice, University of Michigan .....Chicago
Pio, James Percival, Lewis Institute .....Chicago
Ramaciotti, Frank Anthony .....Chicago
Reinke, Julius .....Chicago
Shannon, Frederick Edward, A.B., Lake Forest College....New Philadelphia
Shearer, Fred B. .....Aurora
Smith, George Dresser, Ph.B., Yale University .....Chicago
Stenge, Bernhard .....Chicago
Tascher, John Ralph, A.B., New Mexico State University.....Chicago
Tuttle, Oral Percival .....Harrisburg
Wermuth, William Charles, Jr., B.S., Northwestern University.....Chicago
Whipple, Merrick Ames .....Chicago
Wolf, Alexander .....Chicago

SPECIAL

Case, Floyd Randolph, Hobart College.....Watertown, N. Y.
Higgins, Marshall Fargo .....Joliet
Israel, Fred .....Chicago
Kadow, Zefiryn .....Chicago

College of Engineering

STUDENTS OF THE ACADEMIC YEAR 1910-1911 WHO REGISTERED AFTER THE ISSUE OF THE CATALOGUE OF THAT YEAR

Shurtleff, Howard Freeman..... Wilmette

REGISTER OF STUDENTS 1911-1912

Alvares, Mario Rocha.....
.....São Paulo, Brazil, S. A.
Anderson, Harvey Arthur..Harvey
Belden, Russell.....Joplin, Mo.
Boggs, Howard Llewellyn..
.....Waterloo, Iowa
Burkhard, Walter....Trinidad, Colo.
Cavette, Francis Erle.....Lacon
Clancy, Donald Raymond..Rock Falls
Clemes, Norman Hilliard..
.....New York, N. Y.
Connelly, Lewis Bernal..Ludlow, Pa.
Crow, Horace Haight.....Kenton, O.
Davis, Gordon Wakeman..
.....Kalamazoo, Mich.
Davy, Benjamin Levi.....De Kalb
Davy, Reuben Roy.....De Kalb
Dysart, George Philip.....Dixon
Forbes, John Ewing.....Evanston
Gamble, Merritt Campbell.Evanston
Greene, Percy Clark.....
.....Copenhagen, N. Y.
Gruhn, Oscar Louis..Columbus, Wis.
Haefliger, William Hays...Evanston
Halberg, Edwin Anton.....Chicago
Hale, Carrol Dwight.....Evanston
Havens, Charles Culbertson..Chicago
Henderson, Laland Forrest..
..... Evanston
Herrmann, Leon Charles....Chicago
Hobart, Murray Cassius....
.....Albert Lea, Minn.
Keller, John Nicholas....Toledo, O.
Koerner, Frank Benjamin..
.....St. Joseph, Mo.
Kraft, Milton John.....Oak Park
Kraft, Walter William....Oak Park
Kranebell, Clarence Henry
.....Albert Lea, Minn.
Kurz, Walter Ferdinand....Chicago
McCullough, George Seymour
..... Evanston
McPherrin, William Lane..
.....Kansas City, Mo.

Maze, Rex Campbell. Hesperia, Mich.
Millholland, Norman Kenneth
.....Indianapolis, Ind.
Monroe, Lewis Orin..Helena, Mont.
Mortenson, Lawrence J..Racine, Wis.
Nelson, Raymond T.....Evanston
Norton, Frederick Wm.....Evanston
Pasewalk, Lloyd Herman...
.....Norfolk, Neb.
Raman, Henry Benjamin..
..... Farmingdale
Richards, Ralph Baldwin....Glencoe
Schneible, Claude B.....Chicago
Schwarz, Ralph Abraham...Chicago
Thayer, Bruce Wilcox....Wilmette
Thompson, Wilmer Nichols
.....Springfield, Mo.
Tynan, Theron Tiverton...
.....Sheridan, Wyo.
Voak, Floyd Stanley.....
.....Worthington, Minn.
Ward, Josiah Frank.....Evanston
Wetherbee, Ralph Hodge..
.....Topeka, Kan.
Whelan, James Thomas....
.....Sturgeon Bay, Wis.
Whiting, Bruce Ingalls....Evanston
Whitney, Richard Arthur..Belvidere
Widmer, William Earnest..
.....Centerville, Iowa
Willard, Edwin Ruthven....Chicago
Wood, Donald Gibson.....Evanston
Wood, Irving William.....Evanston

School of Pharmacy

LIST OF STUDENTS OF THE ACADEMIC YEAR 1910-1911 WHO REGISTERED AFTER THE ISSUE OF THE CATALOGUE OF THAT YEAR

Patton, Frederick Wills.....Waupon, Wis.

REGISTER OF STUDENTS 1911-1912

CANDIDATES FOR A DEGREE

SECOND YEAR

Ackemann, William Herman...Elgin
Ahl, Herbert Clarence.....Moline
Bairnson, George Andrew...Chicago
Bengston, John Albert.....Chicago
Bergman, Willard Louis....Chicago
Biasi, Edward Celestin. Dubuque, Ia.
Bowers, Thomas Alfred. Salida, Colo.
Brannon, Herbert Harrison...
.....Circleville, O.
Bridges, Thomas Grover.....
.....Paragould, Ark.
Brzak, Eman John.....Chicago
Byrd, Lewis Herschel....Carbondale
Campbell, William Bruce...Chicago
Cappetta, Vincent Carman..Chicago
Carlson, Gunnar Emanuel....Moline
Carr, Damon Hayes....Bloomington
Carroll, Nova B....Cambridge, Neb.
Chiprin, Samuel .....Chicago
Coleman, Coral Cornelius....Canton
Cook, Lyell Fay.....Morrison
Cowan, Archibald .....Milford
Daudelin, Eugene Felix.....Chicago
Davis, James Duncan..Salida, Colo.
Day, Walter Jackson.....Pecatonica
Doerr, Albert Edward.....Chicago
Dunlap, Leland Harold.....
.....Knoxville, Iowa
Eftaxapoulos, Constantine Sotirion .....Chicago
Etnyre, Lee Ernest.....Oregon
Felger, Frank Fred.....Norfolk, Neb.
Fieselmann, Sidney Frederick. Peoria
Frantz, Harry Earl..Winthrop, Iowa
Frizzell, Lewis.....Berlin, Wis.
Frock, Lisle Price..Colo. Springs, Colo.
Garver, Clarence Earl..Bremen, Ind.
Gordon, Leslie Albert.....Havana
Groome, Percy Samuel.....
.....Yankton, So. Dak.
Hatch, Arthur Clarkson.....
.....Creston, Iowa

Held, Ernest Alfred.....
.....Clay Center, Kans.
Henwood, Maxwell Butler....
..... Prophetstown
Hopkins, Ralph Eply.....
.....Cumberland, Wis.
Huber, Paul Robert.....Chicago
Irvine, Lionel Elmore.....Chicago
Johnson, Chester .....Chrisman
Johnson, John Elmer.....Chicago
Jones, Durward.....LaCrosse, Ind.
Kennelley, Elmer J.....Chicago
Kimlel, Edward ....Hammond, Ind.
McClean, Albert Joseph.Farley, Iowa
McDonald, James Henry....Chicago
Mars, Hartley Farnham.....
.....Newport, Minn.
Mauk, Guy .....Martinsville
Miller, Joseph Benjamin....Clayton
Moffatt, Brice Pressly...Troy, Tenn.
Nandedkar, Mahader Abaji..
.....Mhow, C., India
Nash, Will Wells.....Ripon, Wis.
Needham, Francis Joseph....
.....Victor, Colo.
Nix, Leroy Anthony.....Chicago
Nussle, Eugene Otto.....Granville
O'Daniel, Ellis John.....Englewood
Owen, Gay .....Carthage
Painter, Clinton Blair.....Chicago
Palmer, Hilding F.....Morrison
Pettersen, Holger .....Chicago
Potter, James Zaddock..Piggott, Ark.
Power, Jay Hohn..Portland, No. Dak.
Renneckar, Carl Clayton...Wilmette
Schaller, Frank William.....
.....Yankton, So. Dak.
Sieber, John Andrew.....Evanston
Siedenfuss, John C.....Rock Island
Sinclair, Scott .....Woodstock
Sorlin, Oswald .....Chicago
Stadelman, Oscar Lenz.....
.....Mazomanie, Wis.
Stinger, Arthur Charley.Cresco, Iowa
Stone, Rosco .....Portageville, Mo.
Strassburger, Ernest.Pewaukee, Wis.
Stroh, Grover Rehrmes.....Oregon
Torrey, Frank Aldis....Alba, Mich.
Turner, Hugh Arnold.....
.....Faulkton, So. Dak.
Vurpillat, Joseph Bede.....
.....Winnemac, Ind.
Wunsch, James .....Chicago
Zobel, Charles Frederic.....Chicago

FIRST YEAR

*Aron, George .....Chicago
Bates, Walter Everett.....Kewanee
Beley, Fred William.....
.....Livingston, Mont.
Bengston, John Seamon.....Chicago
Beshure, Kaiser Mike.....
.....West Newton, Pa.
Bevard, Loyd William...Carterville
Black, Thomas Earle.....Clayton
Boettcher, Ferdinand Arthur.Chicago
Buchanan, Luther Herbert.Flat Rock
Campbell, Ralph Elgin.....Canton
Carman, Orval E..Las Animas, Colo.
Chandler, Elliot .....Compton
Cizek, Edward.....Osmond, Neb.
Cotta, Raymond Erb.....Rockford
Crouch, Elven Scott.....Fairbury
DeRosa, Charles .....Chicago
Dines, William Ralph....Monmouth
Donaldson, Lawson William....Polo
Duryea, Floyd.....Hastings, Neb.
Eggert, Emil Otto .....Chicago
Finkelstein, David Edward..Chicago
Gaskins, Vernette Milton....
.....Peterson, Iowa
Getz, Andrew J.....Chicago
Goodsmith, Howard Moulding
..... Chicago
Gordon, J. Everett.....Barron, Wis.
Griffis, Willis Wesley...Lake Forest
Griffith, Carroll Ladd.....Chicago
Gross, Leroy .....Chicago
Guzman, George Augustine..
.....Pueblo, Mexico
Hanneman, Leonard William.
.....Arlington Heights
Harp, Willard Kindred.....
.....Hale Center, Texas
Hastie, Edwin .....Carterville
Henry, Lee..Grand Forks, No. Dak.
Herbert, John James.....Polo
Holland, Lloyd H.....Marion
Honig, Edward Charles.....Chicago

*Not in attendance

Hoppe, Adam John.....Chicago
Ishmael, Raleigh Preston.....
.....Cassville, Wis.
Jackson, Herman Roy..Westby, Wis.
Jackson, William Henry....Chicago
Jensen, Earl R...Michigan City, Ind.
Juhnke, Albert Joseph.....Chicago
Jungknecht, Edward Robert..Chicago
Kaltenbach, George Martin..
.....Buffalo, Wyo.
Kupsch, Arno Walter.....Chicago
Lando, Frederick George....Chicago
Lawson, Oglesvie.....Denver, Colo.
Lewis, Harry Edgar.....Harrisburg
Lyons, Edward Martin.....
.....Brodhead, Wis.
McKee, Clifford Edwin....Morrison
Maupin, M. Luverne.Egan, So. Dak.
Meisner, Oscar Aemilius.....
.....Davenport, Iowa
*Meyers, Fred George.....Glencoe
Nelson, Nels Joseph.....Joliet
Nicholson, Albert Homer.....
.....Logansport, Ind.
Nowakowski, Peter John....Chicago
Nussle, Frank Etienne.Lowden, Iowa
Oglesby, Heman Francis....Chicago
Patton, Jonathan Bedford....
.....Paragould, Ark.
Phillips, Lawrence Arthur...Harvey
*Ralston, Frank Leslie.....
.....La Grande, Ore.
Raphael, Charles Bertram...Chicago
Robinson, Dar Austin.Frankfort, Ind.
Rohweder, Claus .....Tuscola
Schantz-Hansen, Hans Tunis..
.....Cedar Falls, Iowa
Schultz, Herman Franklin....
.....Caney, Kans.
Simpson, Henry Franklin....Chicago
Sperling, Oscar William.....Chicago
Sprague, Harry Burch.....Virden
*Staben, Theo. Willard.....Chicago
Stein, Ralph Lawrence.....Chicago
Stitzer, Roscoe Bernhardt.....
.....Boscobel, Wis.
Stoffregen, Hugh Martin....Chicago
Stone, Leslie Eugene.....Woodstock
Thompson, Donald Cameron.Chicago
Trogman, Samuel .....Chicago
Turner, Willard Fillmore....
.....Meridian, Idaho
Van Etten, Theodore Chilton.Chicago
Van Orden, Peter Bertrand..
.....Lewistown, Utah
Veasy, George Baxter...Ogden, Utah
Vick, Jay J.....Carterville
Webster, Homer D.....Tiskilwa
Wilkins, Merritt Owen.....Paris
*Williams, Ervin Rosswell..Chicago

SPECIAL STUDENTS

*Ackerman, Irving C.....Chicago
Anderson, Cleon.....Ephraim, Utah
Beck, Warren K.....Maywood
Ekeberg, Otto.....Rockford
Forbrick, Charles Anthony...Antioch
Goldman, Ada E.....Chicago
Krizan, John .....Chicago
Lorenz, Fred James.Sheboygan, Wis.
Mahler, William Herman..Elmhurst
Meyer, Raymond Stephen.....Joliet
Miller, Jurn Aill...Lennox, So. Dak.
Noid, Gust .....Canton, So. Dak.
Schnebelin, Harry Peter.....Peoria
Sohl, Fred .....Quincy
Swenson, Harold Lawrence....
.....Ottumwa, Iowa
Tischer, Elmer Abbott.....Peoria
Trovillion, Loren E.....Metropolis

*Not in attendance

Dental School

LIST OF STUDENTS OF THE ACADEMIC YEAR 1910-1911 WHO REGISTERED AFTER THE ISSUE OF THE CATALOGUE OF THAT YEAR

SPECIAL STUDENTS IN DENTISTRY AND IN ANATOMY

Brandenburg, Earl William....Ohio
Brandon, Percy D.....Canda
Burdick, Warren Root.....Illinois
Clark, Richard McCord.....Canada
Copley, Charles Henry.....Nebraska
Crook, Harold Richard..Washington
Elder, Charles Morris.....Iowa
English, Charles Herbert..Nebraska
Farwell, Jay Elbridge.....Iowa
*Fernandez, Octavis, D.D.S..Quebec
Forbes, Robert Ireland.....Kansas
Gibbs, Hubert Roderick....Australia
Hayn, Lloyd Edgar.....Illinois
Holmes, David Fred.....Illinois
Jeffers, Owen Ross.....Colorado
Kankins, Harvey John.....Ohio
Kuehnl, Albert .....Illinois
Lansing, Herbert Stowe.....Iowa
Lawing, Ernest O., D.D.S..Missouri
Leonhardt, Paul A.....California
Lounsberry, Ray Chancel.....Iowa
Mackay, James Geo. Henry .....New Zealand
McLaughlin, Hugh Chas..California
Meyer, James Forsythe....Minnesota
Miller, Nelson Thomas.....Ohio
Munsey, Claude V.....Nebraska
Rasmussen, Leo Benj.....Wisconsin
Robinson, Lura .....Illinois
Sexsmith, Clare Wilde...Washington
Schmitt, Harry .....Iowa
Shaver, Arlo Edwin.....Iowa
Shaw, Harry Cranwill.....India
Shilling, Bessie B.....Illinois
Shipley, Carl Vinnedge.....Ohio
Van Patten, Irvin Roy.....Utah
Wheelock, Frank Boscom..Wisconsin

COURSE FOR GRADUATES AND PRACTITIONERS, 1911

Campbell, John McBeath, D.D.S.....Illinois
Cassill, Owen Elmer, D.D.S. Illinois
Chiles, Charles Dwight, D.D.S. .....Alabama
Christianson-Dalby, J. F., D.D.S.....Utah
Coleman, Thomas Bessicenal, D.D.S.....Mississippi
Cooley, Ralph Clarkson, D.D.S. .....Texas
Farber, Abraham Jacob, D.D.S.....Illinois
Green, Eric Brangwin.....Australia
Grainger, John Wright, D.D.S.....Canada
Grubb, Homer Daniel, D.D.S. .....Ohio
McCord, John William.....Indiana
MacArthur, Nelson, D.D.S..Michigan
Masters, Frank Randolph, D.D.S.....Pennsylvania
Parsons, Frank C., D.D.S.Connecticut
Rider, Thomas Thiel, D.D.S. .....Montana
Rogers, Diego, D.D.S. .....Argentine Republic
Ruggles, Stewart Dana, D.D.S..Ohio
Scott, Walter Kendall, D.D.S. .....California
Townsend, Walter Thomas, D.D.S.....Mississippi
Walters, Richmond A., D.D.S. .....Oklahoma

REGISTER OF STUDENTS 1911-1912

THIRD YEAR

Aaronian, Aaron Manrog...Armenia
Akesson, Axel Wictor.....Sweden
Amöedo, Antoine.....France
Applebee, Alpha Bowers.....Illinois

Babcock, William.....Illinois
Bailey, George Watson....Wisconsin
Ball, Ralph Thomas.....Illinois
Basford, Harry Lea.....Wisconsin
Basford, L. P.....Wisconsin
Bass, Feris Achille.....Texas
Bodorff, Ernst Viktor.....Sweden
Boone, Thomas Eugene...California
Brady, Charles Thomas.....Illinois
Braxton, Fred Jesse.....Illinois
Carlisle, Thomas.....Illinois
Carlin, Leo Francis.....Pennsylvania
Cashin, William Roy.....Wisconsin
Collins, Camillus Carl.....Iowa
Cook, John Richard Williams.Indiana
Corby, Earnest E.....Kansas
Croessmann, Julius William..Illinois
Culp, Corydon Alonzo.....Illinois
Cusack, Cecil Geo. Henry..Australia
Davis, John Harrison..South Dakota
Deans, Andrew Allan.....Canada
Deeble, Albert Leslie...South Dakota
Dore, George David....South Dakota
Dunlap, Robert Murray.....Arizona
Dush, Verna Roscoe.....Illinois
Edlund, Eskill Walter.....Illinois
Etzbach, Bruno Anton.....Illinois
Faller, Edward George....Wisconsin
Freedlund, Gust Reginald...Florida
Freeman, Charles West.....Vermont
Freeman, Louis George.....Indiana
Genter, James Henry.....Illinois
Gerner, Otto Gerhard.....Illinois
Gish, Edson.....Minnesota
Green, James Monroe.....Texas
Hanrahan, Eugene Patrick....Illinois
Harmon, Herbert Newel..Wisconsin
Harris, Julius Charles.....Michigan
Heil, Henry Anthony.....Wisconsin
Hobson, Fred Nae.....Iowa
Hoffman, Augustus Knight....Iowa
Hojem, Johan.....Norway
Hughes, Edmund Joseph
.....North Dakota
Jamieson, Roy.....Canada
Johnson, Ernest W. H.....Tennessee
Kennedy, Ernest.....Canada
Kroschel, Maxie Leo.....Texas
Larson, Leif.....Norway
Linn, Oliver Reinhold..South Dakota
Love, William John.....Minnesota
McElrath, Hugh McCorkle.Kentucky
Macko, Frank W., Jr.....Illinois
Marshall, Roy Albert.....Michigan
Massey, Robert Rollin, A.B..Indiana
Mattice, Clyde Merrill...Washington
Miller, Guy Morris....South Dakota
Murfey, St. Clair.....Mexico
Nelson, Alex Clark.....Wisconsin
Numa, Kenichi.....Japan
Parson, John Moore.....Canada
Pelton, John Gordinier....Wisconsin
Pickles, Nathan Corr.....Missouri
Postle, Merten Meyne.....Ohio
Randolph, Milton Fitz...Washington
Rapp, Daniel Webster.....Illinois
Rice, Warren Earl.....Wisconsin
Rice, William John.....Illinois
Rogers, Neil Oscar.....Illinois
Root, Chester Ralph.....Illinois
Rose, Leonard Adam...North Dakota
Rowland, Thomas Jefferson.Arkansas
Schroder, Bernard, M.P.....France
Schrup, Karl Lawrence.....Iowa
Schumacher, Frank Paul.....Illinois
Schweiger, George Fred'k.....Iowa
Sheetz, Roscoe Martin.....Illinois
Shoore, Leo Abraham.....Illinois
Sieber, Edward LeRoy.....Indiana
Simon, Manuel Saul.....Tennessee
Skinner, Claud Wm. Harris..Canada
Smith, George Edwin.....Illinois
Stamp, Joseph William.....Indiana
Stander, William Albert...Michigan
Stenborg, John Adolph A..Minnesota
Stephens, George Jefferson.Tennessee
Swords, Collins Ward.....Louisiana
Tawney, Pliny Lane.....Illinois
Tull, Allison Lee, A.B.....Illinois
Tuttle, Merle Harrison.....Michigan
Ulvestad, George Elmer..Minnesota
Unseitig, Clyde.....Illinois
Urbanowicz, Henry John.....Illinois
Vander Henst, Julio.....France
Vaughan, Charles Homer..Michigan
Vyverberg, Arnold Homer.....Iowa
Weding, Alfred.....Norway
Williams, John Dyke.....Iowa
Wilson, Leland Stuart...Washington
Yoshida, Yonekichi B.....Japan
Young, Roy Mercer.....Illinois

SECOND YEAR

Adams, Fred W.....Iowa
Aicher, Francis James.....Illinois
Anderson, Fred William.....Iowa
Anderson, Henry Adolph..Wisconsin
Armbruster, Carl.....Germany
Avery, Willard Smith.....Colorado
Auter, Stephen Lytle.....Illinois
Bacon, Francis Erastus, B.S...Illinois
Barickman, Earl Wade.....Illinois
*Blagg, Joseph Peter.....Ohio
Blayney, James Roy.....Illinois
Bloomquist, Guy.....Illinois
Bradbury, Arthur Rexford...Illinois
Buerstetta, Frank Allen....Nebraska
Burkhart, Ralph.....Illinois
Burton, Walter Ellis.....Minnesota
Butler, Guy Goldthorp.....Iowa
Butler, Leigh Edward.....Iowa
Carroll, A. Percy.....Canada
Carter, Woodward Lee, B.A..Missouri
Christopherson, Henry Ole.Minnesota
Clark, Joseph S.....Illinois
Clark, Ralph Edward.....Utah
Clark, Ralph Llewellyn.....Illinois
Cohen, Abraham Aaron.....Illinois
Cohn, Louis Leonard.....Illinois
Connors, James Thomas.....Ohio
Dalby, Hubert F.....Utah
Dallager, Roy Arthur.....Minnesota
Davis, Joseph Hiram.....Utah
Davis, Ned Everett.....Iowa
Diers, Carl Everett.....Nebraska
Ekins, George Warren.....Utah
Evans, Lauren Reid.....Illinois
Ferm, Julius William M.....Iowa
Ford, Vernon Smith.....Canada
Forrester, John Lawson M...B. W. I.
Freeland, Henry Lloyd.....Canada
Geannelis, Iphicrates E.....Turkey
Geering, Walter Henry A...Canada
Goldberg, Philip David.....Illinois
Gordon, Meyer Arthur.....Illinois
Green, Julius Caesar.....Illinois
Greenberg, Isadore Moses....Illinois
Griffin, Homer.....Illinois
Gruber, Max Frederick.....Ohio
Guzman, Sergius Benignus...Mexico
Halverson, Joseph Edward.Wisconsin
Hanna, Charles Madison....Georgia
Hartman, Leroy Leo.....Canada
Haseltine, Lawrence Floyd
.....North Dakota
Hein, Eugene G. A.....Wisconsin
Heller, John Frederick.....Illinois
Henderson, George Wm.....Illinois
Hill, Percy Archibald.....Australia
Hillenbrand, John Alois...Wisconsin
Hiner, Arthur Augustus.....Ohio
Hoffman, Arthur Alfred...Wisconsin
Holmberg, Gale Lloyd....Wisconsin
Honoroff, Henry Aria.....Illinois
Horwitz, Maurice Albert.....Illinois
Ingledew, Walter Beacons-
field.....Illinois
Irons, Charles Glenn..West Virginia
Johnson, Gordon George...Wisconsin
Kelly, Ernst Joseph.....Canada
Krakow, George Joseph.....Iowa
Leonhard, George John.....Illinois
*Littlefield, Edgar Earle.Washington
Luther, Earl O.....Michigan
McKenna, William Louis..Michigan
McKenzie, Alfred Frederick..Illinois
Markle, Fred Lagozia.....Illinois
Marlatt, Samuel Paul H.....Canada
Mitchell, Ralph.....Massachusetts
Morris, Ivor Hugh.....Illinois
Morse, Merwyn Neale.....Australia
Newling, Percival Ray.....Australia
Nonnamaker, Fred Clarence....Ohio
Ofner, Spencer Everett.....Illinois
Olech, Joseph Benjamin.....Russia
Oppermann, Anna Agnes....Illinois
Ordon, Henry James.....Russia
Osborne, Albert Henry....Kentucky
Oury, Georges.....Belgium
Pederson, George Nicholas....Illinois
Pfening, Ernest.....Illinois
Pooley, Alexander Beach.....Illinois
Potter, Daniel Clyde.....Michigan
Prettyman, Ralph Walter..Kentucky
Price, Ernest Edwin.....Illinois
Randall, Earl William.....Iowa
Reynolds, Elzy.....Illinois
Rietdyk, John.....Illinois
Sahr, Benjamin F. F.....Minnesota
Schellenberger, Walter H..Wisconsin
Schniedwind, Ernest Ambrose,
A.B.....Illinois
Seaborg, John Wesley.....Illinois

*Not in Attendance.

Senseney, Harry Edwin, B.S....Iowa
Shain, Clarence Lawson.....Illinois
Sherman, Everett Eugene.....Illinois
Shoaf, Ulysses Uriah.....Kansas
Siegle, John Charles.....Washington
Silknitter, John Powelson.....Iowa
Smith, Ivan Edgar.....Indiana
Sprague, Delbert Oscar.....Iowa
*Sutcliff, Robert Alphonso....Kansas
Swendiman, George Albert.Minnesota
Tait, Edwin Sims.....Canada
Van Patten, Percival Hall.....Utah
Ward, Myron Earl.....Minnesota
Warren, Crawford.....Washington
Washburn, Cecil Dieckmann..Illinois
Werner, Clarence Edward...Illinois
Williamson, Guy Wm.....Illinois
Windheim, Otto William.....Illinois
Wise, Lloyd Hill.....Illinois
Woodford, Clark Burton...Wisconsin
Wyatt, James Nicolas.....Tennessee
Young, William Merki.....Illinois

FIRST YEAR

Anderson, Ross.....Utah
Armour, Ross Andrew, B.S.Nebraska
Babbitt, George Mason.....Illinois
Barkley, Gordon Charles...Australia
Bechtel, Ray Emery....North Dakota
Bell, Elmer Andrew.....Wisconsin
Benson, John Theodore.....Illinois
Bernhisel, Everett Clark.....Utah
Bernhisel, John Milton, Jr.....Utah
Bly, Elmer Lee.....Minnesota
Brandt, Roy Obert.....Montana
Brooks, Anthony Wayne, B.S.
.....Mississippi
Brown, Francis Nathaniel...
.....New Mexico
Bruce, Harold Columbus.....Iowa
Buchner, Elkanah Marshall..Canada
Buchner, John Ernest.....Illinois
Buttery, Horace Cayley.....England
Bybee, Jefferson Frank.....Utah
Camacho, Jorge Albert.....
.....South America
Chisolm, Patrick Donald, B.A.
.....Alabama
Christensen, Thomas Selmer..Illinois
Clopper, Paul Wadsworth....Illinois
Colletti, Alexander Emanuel..Illinois
*Courrier, Ernest Adolph..Minnesota
Crist, Kelsey Bradford.....Illinois
Crostwait, Paul Vivian.....Missouri
Cruse, Milton.....Illinois
Cultra, Vernon Ellsworth....Illinois
Curry, D. English.....Indiana
Dallimore, Franklin Clyde.....Utah
Daugherty, Frank Beeman...Illinois
Davidson, Claude Lyons.....Canada
Davy, Oakley Bruce.....Illinois
DeBeck, Calvin Morgan.....Illinois
Dickey, James Harvey, B. S...Illinois
Dravel, William Frederick.Wisconsin
Eberle, William Roy.....Illinois
Ellsworth, Jenkin.....Wisconsin
Evans, Emmet Robert.....Iowa
Ewing, Clyde Donald.....Michigan
Feiman, Edward Morris.....Ohio
Fillinger, Clinton Oscar...Wisconsin
Foss, William Fritdjof.North Dakota
Frankel, Joe Edward.....Wisconsin
Fraser, Charles Lyle.....Montana
Fritsch, Earl David .....Illinois
Funkhouser, Ira, B.S., P.B....Illinois
Gallagher, John Connel...Minnesota
Ganey, Henry Andrew.....Illinois
Grigg, Leon Allison.....Montana
Hanson, Harris Gilbert....Wisconsin
Harpham, Ralph Barwick....Illinois
Harris, Jasper Earl.....Iowa
Haugen, Andrew.....Illinois
Heck, Hyland Leroy.....Illinois
Helm, Meredith.....Minnesota
Hipsh, Henry Davis.....Tennessee
Hirn, Frederick Joseph.....Michigan
Hollister, Harvey Franklin.....Iowa
Holloway, Claude Arlie.....Illinois
Hopper, William Gerald...Colorado
Horlick, Raymond Wesley....Illinois
Hurley, Charles Marion.....Indiana
Hurt, Arthur Edward.....Illinois
*Hurton, Roderick Geo. H...Canada
Jamison, William Flavous.....Utah
Jirka, Robert Hugo.....Illinois
Johnson, Howard Alfred...Michigan
Juel, Martin Oliver....South Dakota
Jung, Leo Henry.....Illinois
Kaplan, Nathan M.....Illinois
Kato, Churgi.....Japan
Katz, Samuel .....Illinois
Kennedy, John Benton.....Montana
Kettlewell, Norman Lloyd.Minnesota
King, Benjamin Harrison..Wisconsin

Kratky, Alfred Harry.....Illinois
Kremer, Leo Wilfred..South Dakota
Kuehn, Nicholas Ellis.....Indiana
La Grow, Asa Joseph.....Illinois
Lane, Lulu Izetta.....Illinois
Latham, Haidee Weeks....Louisiana
Lipsky, Julius Philip.....Illinois
Lizar, Frank Aaron.....Wisconsin
Lohmann, Emelia Mary...Wisconsin
Loomis, Milo Bennett.....Iowa
*McNeill, Hugh Thomas....
.....Massachusetts
Menges, Harry Dunbaugh...Illinois
Merwin, Benjamin Stephen.Wisconsin
Metcalfe, Earl Stanley.....Iowa
Miller, Anna Laura, A.B....Kansas
Mitchell, George Hezekiah...Illinois
Mitchell, John Henry, B.S.Mississippi
Mortensen, Conrad Ervin.....Utah
Moughalian, Levon Bedros...Turkey
Murray, Martin William.....Illinois
North, Ford John.....Indiana
Olson, Caleb Jonathan.....Wisconsin
Pankonin, George Franklin.Minnesota
Parcells, Rue Priest.....Indiana
Park, Lawrence Walter...Wisconsin
Patrick, Clifford Leo....South Dakota
Penberthy, Verne Edward....Illinois
Pett, Theodore Paul.....Ohio
Rea, Victor Benton.....Michigan
Reeve, William Driver.....Utah
Rennie, Will John.....Minnesota
Rivard, George Alexander....Maine
Robinson, Samuel John.....Illinois
Rogan, Nathaniel.....Illinois
Rose, Ross Shibley.....Canada
Rosenhouse, Aaron Jacob..New York
Satek, Edward.....Illinois
Schmidt, Joseph James.....Iowa
Schorsch, Albert Joseph.....Illinois
Schroder, Anna Elizabeth..Germany
Schwalen, Edmund.....Minnesota
Scofield, Ralph Julius.....Michigan
Sears, Ralph Augustus.....Iowa
Serles, Merwin Charles.South Dakota
Short, Oswald Strathmore..Australia
Slack, Roy Bernard.....Iowa
Soellner, Oscar Christian.....Illinois
Soucek, Edward.....Illinois
Steffy, Chester Thomas.....Montana
Stubbert, Frank Burton.....Illinois
Sulaiman, Mohammed.....India
Sullivan, Edmund Francis....Illinois
Sutton, Noah Richard.....Tennessee
Templeton, Leo Allen.....Kansas
Terry, Charles Roy.....Illinois
Terry, Graydon Mason.....Texas
Thomas, Newton George, B.A..Iowa
Tilton, Burge Melvin.....Indiana
Tommerson, Leif Norman.Minnesota
Van Patten, Irvin Roy.....Utah
Van Tassell, Harry Wilbur..Illinois
Vinje, Svein.....Illinois
Warner, Dayton.....Colorado
Weiler, Harry Burkhart.Pennsylvania
White, Thomas.....Illinois
Williams, Aubrey Thomas.Kentucky
Wills, Lellan Alva.....Wisconsin
Wilson, Roy Melville, A.B.....Iowa
Witmeyer, Howard Yeagley
.....Pennsylvania
Wodrich, William Henry.....Iowa
Wollin, Erving.....Illinois
Wonder, Harold Dean.....Colorado
Young, George William.....Illinois
Zak, Charles Frank.....Illinois
Ziemke, Louis.....Wisconsin

SPECIAL STUDENTS IN DENTISTRY AND IN ANATOMY

Baker, William Gilbert...New York
Brandenburg, Earl William....Ohio
Brandon, Percy D.....Canada
Bunce, Harold Ross.....Indiana
Clark, Richard McCord.....Canada
Clevett, Merton Lloyd.....Iowa
Crook, Harold Richard...Washington
Emmett, Arthur Van Tell.Minnesota
English, Charles Herbert....Nebraska
Erickson, Louis A.....Wisconsin
Forbes, Robert Ireland.....Kansas
Gray, Marion Lewis, D.D.S.Missouri
Hayn, Lloyd Edgar.....Illinois
Hillebrand, W. Ray.....Illinois
Hoh, Charles G.....China
Holmes, David Fred.....Illinois
Jeffers, Owen Ross.....Colorado
Keller, Pearl H.....Ohio
Krog, Signe Marie .....Norway
Kuehnl, Albert .....Illinois

*Not in Attendance.

Leonhardt, Paul Augustus.California
Lorentz, George Gihon.West Virginia
Lounsberry, Chancel Ray.....Iowa
Maddox, Newton M.....Illinois
Miller, Nelson Thomas.....Ohio
Mitchell, Robt. Andrew.....Kansas
Musselman, Elias Raymond...Illinois
Neavles, Claude A.....Nebraska
Orriston, Joseph Mervyn...Australia
Rother, William J.....Minnesota
Schmitt, Harry.....Iowa
Sexsmith, Clare Wilde.....Indiana
Shaver, Arlo Edwin.....Iowa
Shipley, Carl Vinnedge.....Ohio
Stoll, Edwin Mallahen.....Kentucky
Stuer, Dr. Emil J.....Belgium
Walters, Karl Gress.....Ohio
Wheelock, Frank Bascom..Wisconsin

School of Music

LIST OF STUDENTS OF THE ACADEMIC YEAR 1910-1911 WHO REGISTERED AFTER THE ISSUE OF THE CATALOGUE OF THAT YEAR

Those marked (*) are regular course. Otherwise they are special students.

*Barlow, Louise Ferry....Oak Park
*Belknap, Charlotte Brainard .....Evanston
*Biddle Adalaine Merrill..Evanston
Blakeley, F. Ross.....Harlan, Iowa
*Bredin, Elias Arnold.....Evanston
Edward, Mrs. Lillie.....Chicago
Gannett, Elmer Kent....Woodstock
Hackney, Minnie Erickson..Chicago
Hebblethwaite, Mrs. J. L..Evanston
Holton, Mary Ward..... .....Indianapolis, Ind.
Horsman, Mrs. A. V.....Winnetka
Hurford, Jean.. .....Glencoe
Jordan, Viola.....Chicago
*Lambert, Jessie.....Chicago
Little, Bessie.....Evanston
Mc Cague, Margaret Harriet .....Chicago
Merritt, Louise Annetta...Magnolia
Miller, Mary Cleo.Beaver City, Okla.
Nye, Edith Amelia.....Evanston
Pritchard, June.....Hinsdale
Sykes, Marian Chandler...Evanston
Walsh, Margaret Ingraham .....Holland, Mich.
Ward, Walter Talmadge....Onarga
Williams, Helen Woodbridge .....Evanston

REGISTER OF STUDENTS 1911-1912

IN REGULAR COURSES

Addy, Mary Sophia.....Chicago
Allen, Guy Corken.....Evanston
Ammerman, Inez Lillian.... .....Iron River, Mich.
Anderson, Della Mary.Clearfield, Pa.
Anderson, Meta.....Chicago
Anfinsen, Lyda Rella.....Leland
Annett, Thomas Howard....Galena
Austin, Electa Louise.....Chicago
Backus, Rella Luanita.....Evanston
Bailey, Lura Mary.....Evanston
Baily, Maurine Anna....Lewistown
Baker, Margery Mae.Allegan, Mich.
Bassett, Janet.....Chicago
Beddow, Opal.....Waukon, Iowa
Beddow, Bernice Iona.Waukon, Iowa
Bell, Pauline Hortense....Kewanee
Belknap, Charlotte Brainard .....Evanston
Bentley, Hazel Eilers..... .....Fort Dodge, Iowa
Berry, Loretta.....Evanston
Bidwell, Almeda M.....Chicago
Braastad, Borghild Margaret .....Ishpeming, Mich.
Bradley, Mida Elizabeth.... .....Chillicothe, Mo.
Bredin, Elias Arnold.....Evanston
Brenneman, Hedwig.....Evanston
Brown, Elizabeth.....Evanston
Bruce, Helen Louise...Boise, Idaho
Bruce, Jean Kathryn.....Chicago

Buck, Helen Margaret.....Chicago
Bullis, Carleton Henry.....
.....Milwaukee, Wis.
Bushinger, Mary Gephart...
.....Monte Vista, Colo.
Butler, Bernadette Mary....
.....Ishpeming, Mich.
Cabanis, Gretta.....Chicago
Campbell, Marvene Goldie..Chicago
Cardoff, Bessie Adelia.....
.....Owatonna, Mich.
Carlton, Edith Marion.....
.....Laurium, Mich.
Carter, Florence Gertrude...
.....Union City, Ind.
Carter, Gertrude.....Evanston
Cleworth, Beulah Rose.....Chicago
Coffman, Ethyl Emily.....Clayton
Colliver, Ruth.....Aurora
Combs, James Arthur.....Macon
Congdon, Gertrude.....Evanston
Cooke, Elma Ray.....Chicago
Cooper, Ruth Lillian.....Peoria
Corey, Roxie.....Fort Dodge, Iowa
Cornell, Edna Beryl....East Moline
Crain, Ethelyn Lucile.....
.....Linton, No. Dak.
Crane, Camilla Mary.....Chicago
Crozier, Ethel Beatrice.....Geneseo
Cuddeback, Julia.....Toledo, Ohio
Curtis, Cheryl Maria.....Sheffield
Davis, Mignon .....Rockford
Davis, Winifred J.....Chicago
De Coudres, Mary.....Evanston
Deming, Margaret..Highland Park
De Pew, Hutoka Wannita..
.....Wolf Lake, Ind.
De Shazo, Jennie...Memphis, Tenn.
De Shazo, Susie....Memphis, Tenn.
Dudley, Marjorie Eastwood.
.....Evanston
Durham, Edith.....Oak Park
Dutton, Dorothy.....Nevada, Iowa
Dutton, Edith .....Winnipeg, Can.
Eberly, Elizabeth.....Joplin, Mo.
Ellis, Leon.....Spokane, Wash.
Emerson, Rose Cecilia.....Evanston
Enright, Mary.....Chicago
Erikson, Edith Alberta.....
.....Crystal Falls, Mich.
Eversz, Winifred.....Evanston
Falcon, Myrtle Nightingale.Evanston
Fallis, Clara Louise.....Danville
Flynn, Mac A.....Chicago
Foote, Sheldon Burnham...Evanston
Freese, Bernice....Nappannee, Ind.
Frey, Vera Ethelyn..Tacoma, Wash.
Frisbie, Roger Corr.....Marseilles
Glasheen, Nellie Frances...Chicago
Goddard, Odile.....Evanston
Gordon, Charlotte Rose.....Havana
Graves, Nathaniel V.....Chicago
Greeley, Martha Helen...Winnetka
Greene, Ruth Leona.....
.....Grand Island, Neb.
Greig, Clarissa Ella.Cherokee, Iowa
Hall, Charles Ernest...Dayton, Va.
Hamilton, James..Birmingham, Ala.
Hammond, Emily June.....Chicago
Hall, Lysle Griffeth...Galien, Mich.
Harbaugh, Bertha Florence
.....Highland Park
Harper, Mary Ellen.Unionville, Mo.
Harris, Gladys...Pembina, No. Dak.
Harter, De Lelia.....Evanston
Hartman, Louise ....Remington, Ind.
Heath, Hazel.....Capron
Heathcock, Ocla Wickham..Chicago
Hebblethwaite, Anna Kath-
ryn.....Evanston
Heideman, Esther Anna....
.....Waterloo, Wis.
Hjerlied, Helene Magnilla
.....Decorah, Iowa
Hocker, Goldie Susan.Durango, Colo.
Hoff, Reva Clair.....Danville
Holden, Harriet Hulda, Winfield, Iowa
Honn, Jessie May....Lebanon, Kan.
Hoover, Albert Cyrus..Genoa, Neb.
Hostetter, Eunice Lillian....Chicago
Hotaling, Grace..Fond du Lac, Wis.
Houston, Gertrude.....Joliet
Howard, Vesta Jeanette..Farmington
Howe, Charles Merwin....Evanston
Hoyt, Clara Maude..Decorah, Iowa
Hudson, Beatrice Mellor...Wilmette
Hunter, Rollin Roeck,.....
.....Memphis, Tenn.
Johnson, Lois Mildred..Latrobe, Pa.
Jones, Edith Maldwyn.....
.....Minneapolis, Minn.
Jones, Glenna.....Kingston, Mo.
Jones, Josephine.....Danville
Jones, Ruth Gertrude..Lawrenceville
Kappes, Marion.....Evanston
Klein, Grace Anna.....Evanston
Klopp, Adah Eulalia..Omaha, Neb.

Knoll, Techla May. Union City, Ind.
Knox, Mary Louise.....Sheffield
Kormach, Flora.....Chicago
Landgraf, Orville Aaron...
.....Rome, Wis.
Larson, Lucy Matholda.....
.....Bloomer, Wis.
Laub, Edna Hazel...Denison, Iowa
Lennox, Fama..Marshalltown, Iowa
Leonard, Wilma Louise.....Chicago
Lindsay, Gertrude Ida.....
.....Escanaba, Mich.
Ling, Clara Gertrude. Sheldon, Iowa
Ling, Edith Maude...Sheldon, Iowa
Louthan, Ethelyn.....Canton, Mo.
Lusk, Milan Edmund.....Wilmette
Lutton, Charles Edwin.....Evanston
McAdams, Cecilia Lora.....Chicago
McCague, Mary Gertrude..
.....Omaha, Neb.
Macdonald, Mary Edna....Evanston
McGuffage, Mary E. C.....Chicago
Mc Kercher, Roy Malcolm..
.....Saginaw, Mich.
Mc Laughlin, Mabel Dell...
.....Storm Lake, Iowa
Mc Quillen, Mary Aline....
.....Mishawaka, Ind.
Mack, Mildred Amelia. Warren Park
Martin, Anna Belle.....
.....Iron Mountain, Mich.
Martin, Stanley Arthur.....
.....Calumet, Mich.
Mellow, Olive Mae.....Lacon
Meltvedt, Etta Christina....
.....Paullina, Iowa
Moffitt, Edith H.....Chicago
Mollette, Netta Margaret....
.....Durango, Colo.
Mondereau, Le Roy..Meadville, Pa.
Moore, Mary Emma....Oregon, Mo.
Morgan, Russell Van Dyke.
.....Burlington, Iowa
Mountain, Agnes Veronica. Chicago
Murray, Jennie Evalyn....Evanston
Myers, Gladys Ruth..Sheldon, Iowa
Nelson, Marjory Antoinette..
.....Owatonna, Minn.
Newell, Florence Eleanor...
.....Monticello
Nickerson, Rosemary.....Onarga
Nysewander, Nancy Ethel...
.....Des Moines, Iowa
Oliver, Kate W.....Chicago
Olson, Hazel.....Aurora
Olson, Olivia .....Salina, Kan.
Olston, Stella Lillian.....
.....Lake Pretson, S. D.
Pate, Lillian Ruth..N. Crystal Lake
Patton, Corinne Moore.....
.....Catlettsburg, Ky.
Phipps, Park.....Evanston
Plagge, Newton Oliver..Barrington
Preston, Eva Emeline.....
.....Strawberry Point, Iowa
Price, Dorothy Margaret....
.....Cleveland, Ohio
Pritchard, Fannie Isabella...
.....Geneseo
Prouty, Frances Lillian....
.....Des Moines, Iowa
Pruen, Eleanor Orpha...Princeville
Ransom, Florence Cliff.....Rockford
Raymond, Margaret.....Evanston
Reichelderfer, Lola Edith...
.....Harlan, Ind.
Reinke, Meta Julia..Marinette, Wis.
Richards, Grace Ruth.....Lena
Rime, Luella Christina.....
.....Dell Rapids, So. Dak.
Rime, Olga Henrietta.....
.....Dell Rapids, So. Rak.
Robinson, Margarite Rose...
.....Hampton, Ia.
Roper, Ellwyn.....Hobart, Ind.
Ross, Mildred Kathryn.....Chicago
Rund, Anna.....Bessemer, Mich.
Russell, Levi Douglas.....Chicago
Sale, Nelson T.....Enid, Okla.
Sand, Minnie Edna.....Geneseo
Saurer, Harold Dale..Bluffton, Ind.
Seaman, Maurice Lewis.....
.....Battle Creek, Mich.
Sefton, Mary Florence.....
.....Greensburg, Ind.
Schuster, Rudolph Stanley...Chicago
Shilberg, Ida L.....Chicago
Shoaf, Katie Lou...Covington, Tenn.
Silvius, Delwin Harold.....
.....Hampton, Iowa
Smith, Angeline Elsie.....
.....Marlette, Mich.
Smith, Helen Merle.....
.....Grand Junction, Colo.
Spencer, Marjorie Elizabeth..
.....Kansas City, Mo.

Starnes, Mildred Elizabeth..
.....Minneapolis, Minn.
Stewart, Florence Verle....Kewanee
Stiles, Myrlie Lola..Barronett, Wis.
Stringham, Edwin John.....
.....Kenosha, Wis.
Strohm, Albert Johann.....
.....Evansville, Ind.
Strong, Bethena Pavey....Evanston
.....Evanston
Stults, Frances Willard....Evanston
Swartzlow, Jessie Frederica.
.....Sparta, Wis.
Sweet, Genevieve Ellen....Evanston
Swenson, Grace.....Chicago
Switzer, Vera Aline.....Farina
Taecker, Bertha Louise.....
.....Watertown, So. Dak.
Taylor, Florence.....Evanston
Templeton, Blanche Irene..Oak Park
Tidball, Jeanette.....Chicago
Trainor, Mame A.....Chicago
Travis, Florence.....Evanston
Twohig, Anna.....Chicago
Urbain, Lea Fantine.....Du Quoin
Van Pelt, John Amos.....Galesburg
Vincent, Esther Hayes.....Chicago
Wagner, Frederick C.....
.....Chesterton, Ind.
Walsh, Margaret Mary.....
.....Richland Center, Wis.
Walter, Alberta Elizabeth...
.....Chatsworth
Ward, Clara Mae...Marinette, Wis.
Watts, Gaywood Lucile.....
.....Sutherland, Iowa
Webb, Marion.....Elburn
Wegener, Elizabeth Anna..Chicago
Weis, Ezra Herman Franklin
.....Reddick
Welch, Lucy Anna..Marathon, Iowa
Wells, Norma.....Evanston
Wheeler, Lora Louise.....Onarga
Whitelaw, Olive Stanton....Chicago
Widney, Willard Alexander
.....Melrose Park
Wiley, Zella Rosalie..Edgerton, Ohio
Willson, Madge Altura.....
.....Edgerton, Wis.
Wolber, Edna Pearl...Milledgeville
Wolf, Ethel Hattie.....Chicago
Wood, Laura Willard.....
.....Santa Fe, N. M.
Wycoff, Irving Orlando.....
.....Rock Rapids, Iowa
Zingham, Rita....Blue Earth, Minn.

SPECIAL STUDENTS

Allen, Geraldine Lenore.....
.....Laurens, Iowa
Allen, Harriet Gladys.....
.....Cherokee, Iowa
Arnold, Frances Elizabeth..Evanston
Avery, Willard Smith.Boulder, Colo.
Balchen, Anna Helen.....Evanston
Barker, Elizabeth.....Chicago
Beard, Mabel Lewis.....Petersburg
Beaubien, Jean.....Evanston
Bentley, Daisy.....Normal
Bently, Louise .....Chicago
Bernhisel, Helen Louise....Evanston
Berkeley, Lydia A.....River Forest
Berry, Katharine Kelley....
.....Richland Center, Wis.
Bigelow, Katharine Lois...Evanston
Blackstock, Edith.....Rutland, Iowa
Bollman, Fred Keegan.Gas City, Ind.
Boot, Estell.....Evanston
Bradshaw, Agnes Boynton..Evanston
Brickman, Ruth Louisa.Eldora, Iowa
Bryant, Elsie Louise...Bethany, Mo.
Callahan, Samuel Miller..Winnetka
Chapman, Mabel Estelle...Wilmette
Connor, Mary Lucy.....Evanston
Corbin, Florine Cleo.....Washburn
Cox, Viva Dora.....Evanston
Crawford, Nella Alice.....Evanston
Damewood, Grace Elizabeth
.....Evanston
Dawes, Mrs. R. C.....Evanston
Dawson, Mary Ann..Rochester, Ind.
De Groff, Elizabeth Mae..Princeton
Dent, Florence Myrtle.....
.....Council Grove, Kans.
Dobson, Ella E.....Evanston
Engelhard, Margaret.....Evanston
Feiler, June.....Evanston
Fike, Mazy Anna....Claypool, Ind.
Fisher, Wilson Kelty.....Evanston
Ford, Jessie Eliza.....Algonquin
Foster, Melissa .....Evanston
Fuller, William Green.....Galva

Giddings, Leone .....Evanston
Goldsmith, Leta Will.....
.....Birmingham, Ala.
Graham, Florence Anna....
.....St. Paul, Minn.
Griner, Mertie Luella.....
.....Middlebury, Ind.
Harris, Isabel W.....Evanston
Hawkins, Irene.....
.....San Francisco, Calif.
Heath, Lester I.....Chicago
Hesla, Irene .....Prescott, Ariz.
Hobart, Elizabeth.....Evanston
Hogan, Constance.....McLeansboro
Holden, Harriet Huldah.....
.....Winfield, Iowa
Hollen, Cora Alice.....
.....Eau Claire, Wis.
Howell, Marie Scripps....Evanston
Hughes, Frances Mary...
.....Downers Grove
Hull, Evelyn.....Waterloo, Iowa
Huntsinger, Phoebe Jane...
.....Eau Claire, Wis.
Hurford, Jean.....Glencoe
Hurt, Ruth Anna...Chanute, Kans.
Jackson, Florence May....Freeport
Jennings, Marion.....Sterling
Johnson, Bess .....Fremont, Ind.
Johnson, Olive.....Chicago
Jones, Mabel Anne.....Evanston
Judsoh, Marjorie Lucile....
.....Escanaba, Mich.
Kennedy, Laura Dawes.....
.....Collins, Iowa
Kiess, Mary Henriette.....
.....Highland Park
Kimball, Maurine Winifred..Elgin
King, Maude Vernice.Kearney, Neb.
Kirk, Fredericka Victoria...
.....Evanston, Neb.
Klatt, Genevieve Hedwig....Lincoln
Koerber, Barbara .....Winnetka
Linderman, Vivian Willard
.....Marengo
Little, Bessie .....Evanston
Loehr, Adele Marie ....Carlinsville
Lusk, Charles Blahomie....Wilmette
McCandles, Hazel Gray...Evanston
McCarthy, Mabel ....Buffalo, N. Y.
McCordic, Christine Ruth...
.....Winnetka
McCracken, Alexander Allison
.....Chicago
McCulloch, Hugh Waugh..
.....Evanston
McGuire, Florence Louise..Chicago
McRoberts, Mildred .....Chicago
Marcus, Lillian .....Evanston
Marks, Vernia .....Beloit, Wis.
Martin, Estelle Ruth.....Bement
Marvin, Marie Bianca ....Evanston
May, Grace .....Winnetka
Mayes, Pearl Stella.....Chicago
Meyer, Mary Bailey.....Evanston
Meyer, M. K.....Winnetka
Miller, Esther McDowell..Evanston
Minch, Verna Mae..Chalmers, Ind.
Mitchell, Mrs. Nellie R...Wilmette
Moore, Gladys Mae.....Morris
Moser, Helen.....Eldora, Iowa
Munier, Abram Elie .....Evanston
Naslund, Rose Elizabeth....Chicago
Noyes, Josef Harris ...Paris, Texas
Nyquist, Reuben Emil.....Moline
O'Hare, Mae Elenor.....Evanston
Ollson, Evalyn .....Winona, Minn.
O'Neill, Marjorie Edith.....
.....Buchanan, Mich.
Padgett, Helen Ryburn.....Ottawa
Patty, Nella Mae.....Oneida
Pendleton, Edna Daphine..
.....Seattle, Wash.
Perry, Gertrude Elizabeth
.....Williamsburg, Iowa
Petiot, Rita .....Evanston
Pohl, Ella W.....Chicago
Pratt, Evelyn Bronson.....Chicago
Ramirez, Cornello Canlas..
.....Orayat, P. I.
Raymond, Mary .....Evanston
Reese, Annie.....Scandanavia, Wis.
Rémy, Eleanor Reybrun....Evanston
.....Caruthersville, Mo.
Roberts, Ernestine .....
Rohloff, Helene Ida..Menasha, Wis.
Rost, Ethel Catherine.....Chicago
Ruby, Myrtle Bulah....Bethany, Mo.
Sager, Mrs. Elizabeth Rouark
.....Evanston
Sauer, Frank Joseph.....Evanston
Schuermann, Helen Minna.Evanston
Smith, Bertha .....Ocala, Fla.
Smith, Frederick George..Gary, Ind.
Smith, Marion .....Evanston
Snider, Venus Mildred.Hamlet, Ind.
Stebbins, Pearl E.....
.....Council Grove, Kans.

Steinbuck, Celia Dorothy...Evanston
Stephens, Mabel Ruth.....Evanston
Stinson, Jeannette Margaret.Chicago
Stratton, Lillian Blanche....Chicago
Tatley, Clara Geraltine....
.....Bismarck, No. Dak.
Tennis, Elizabeth .....Evanston
Thomas, Cyra .....Evanston
Thornburrow, Mary Isabelle.
.....Wetmore, Kans.
Thurston, Gertrude .....Winnetka
Thurston, Helen Maria....Winnetka
Tietgens, Mrs. Paul.....Evanston
Tomblin, Beulah Elizabeth..Aurora
Traxler, S. Inez.....Evanston
Tyler, Lucy Isham....Otego, N. Y.
Tyler, Verna May.....
.....Yankton, So. Dak.
Van Vlissingen, Eleanor Dorothy .....Evanston
Walker, John Daniel.....Chicago
Wells, Miriam....Wauwatosa, Wis.
Whitman, Mrs. Antoinette Abel .....Wilmette
Williams, Junia.....Guthrie, Okla.
Woodworth, Helen Hays..Evanston

School of Commerce

LIST OF STUDENTS OF THE ACADEMIC YEAR 1910-1911 WHO REGISTERED AFTER THE ISSUE OF THE CATALOGUE OF THAT YEAR

Dreiske, Charles Herman....Chicago
Finn, Richard John.....Chicago
Gregg, John Henry.....Chicago
Grosser, Rosine Helena....Chicago
Hollywood, John Franklin..Chicago
Landholm, Arthur .....Chicago
Vorhauer, William August..Chicago

REGISTER OF STUDENTS, 1911-1912

Absalonsen, Alf .....Chicago
Acree, William Robert.....Chicago
Adams, Elmer Nevan.....Chicago
Agnew, Edward William...Aurora
Ahlberg, Thorsten Jacob...Chicago
Albert, Lawrence Joseph....Chicago
Allen, Homer Folsom.....Chicago
Andersen, Walter Harry..Oak Park
Anderson, Alfred William.Chicago
Anderson, Arthur Philip...Chicago
Anderson, Elmer T.....Chicago
Anderson, Oscar Alberta....Chicago
Andrews, Frederick Bernard.Chicago
Andrews, Roger Wilson....Chicago
Arnold, William Frederick.Chicago
Ashman, Lewis Ethelbert...Chicago
Backus, Roy Eugene.....Chicago
Baddeley, Oscar Otto.....Chicago
Balaty, Vincent .....Chicago
Baldwin, Frank Louis.....Chicago
Baldwin, Robert B., Jr....Chicago
Bardi, Karl Emile de.....Chicago
Baron, Maurice Homer.....Chicago
Bartells, Henry Herbert....Chicago
Bauer, Albert Wenzel.....Chicago
Beck, Anton T.....Chicago
Beckenstein, William .....Chicago
Beech, George Arthur.....Chicago
Beeson, William B.....Chicago
Bell, John William .....Chicago
Bender, William Henry....Chicago
Benson, Edna Theresa.....Chicago
Benson, Nels Bernard.....Chicago
Bernatz, George.....Chicago
Bernstein, Mitchell Leroy..Chicago
Berti, Titus Nicholas.....Chicago
Billie, Frank Joseph.....Chicago
Birmingham, Bruce Lindsley..
.....Chicago
Blaha, Edward W.....Chicago
Boecklen, John Peter.....Chicago
Boehm, George Frank.....Chicago
Boettcher, Emil .....Chicago
Bonk, Joseph Paul, Jr.....Chicago
Boughton, Robert Lathrop...Chicago
Bourke, Philip Louis.....Chicago
Bowman, Stanley .....Chicago
Brandt, Ferdinand M.....Chicago
Brandt, James F.....Chicago
Bready, John Williamson...Chicago
Bretall, Walter Herbert...Oak Park
Bretl, Frank Joseph.....Chicago

Briggs, Joseph .....Chicago
Bristol, James Trotter.....Chicago
Brown, Harry Wagner.....Chicago
Brown, Robert McCagg.....Chicago
Buck, George LeRoy.....Chicago
Buckberg, Walter Thomas..Chicago
Bugler, Louis John .....Chicago
Bullock, Harry Leonard.....Chicago
Bumbarger, Hattie .....Chicago
Burkland, Swan Gunner....Chicago
Buten, Erwin Albert.....Chicago
Cadden, John LeRoy.Des Moines, Ia.
Callander, Alexander Barnes
.....Chicago
Carey, Patrick S.....Chicago
Carlson, Vera .....Chicago
Casavaw, Josephine Mary...Chicago
Casper, George Harry.....Chicago
Chindblom, David Peter....Chicago
Chorlette, Louis William...Chicago
Christophel, Carl .....Chicago
Civis, James Arthur.....Chicago
Clafford, Herbert Jean.....Chicago
Clarke, Rosanna Agnes.....Chicago
Cleary, Gerald Vernon .....Chicago
Cliff, Arthur Frederick.....Chicago
Clifford, Stephen Anthony..Chicago
Cohen, Nathan .....Chicago
Cohn, Frank .....Chicago
Colberg, James Antony.....Chicago
Coleman, Rollin M.....Chicago
Conklin, Frederick Baker...Chicago
Connolly, Arthur Johnstone.Chicago
Cooper, Manuel .....Chicago
Corlett, George V.....Chicago
Corrigan, John Edward....Chicago
Creed, Kenneth Gregory....Chicago
Crews, Joseph Harrison....Wilmette
Cronk, Paul Herbert.....Chicago
Cushman, Robert Everton...Chicago
Dale, David, Jr.....Chicago
Daly, Elwood Carrol.....Chicago
Davis, Fred .....Chicago
Davison, John Ellsworth....Chicago
Dedaker, Robert Nichols.....Chicago
Deiss, Harry Brainard.....Chicago
Denig, Russell Frederic.....Chicago
Denton, M. Estelle .....Chicago
DeWard, Peter Cornelius....Chicago
Dick, Frederick Christian..Chicago
Dittmer, Anthony John.....Chicago
Dixon, Jules Pierre.....Chicago
Dobbs, Frank Wilbur.....Chicago
Dobin, Henry Alfred.....Chicago
Dombrow, Rudolph Charles.Chicago
Donars, Frank Anthony....Chicago
Dorman, Charles Alfred....Chicago
Doty, George M.....Chicago
Downers, John F.....Chicago
Duers, John Elmer.....Chicago
Dvorak, Theophilus Frank..Chicago
Dwinnell, Merrill .....Chicago
East, Arthur H.....Chicago
Ellickson, Lester Raymond..Chicago
Erickson, Alfred Herman
Oscar .....Chicago
Erickson, Victor M.....Chicago
Esrig, Morris .....Chicago
Evans, Walter Messick....Chicago
Evers, Frank R.....Chicago
Faber, Guy Stanley.....Chicago
Farwell, Ernest Chilton.....Chicago
Fathschild, Clifton William.Chicago
Fenlon, William John.....Chicago
Field, Alexander Woodie..Chicago
Finholt, Olaf Andrew.....Chicago
Fitzgerald, Charles Patrick..Chicago
Fleming, T. J.....Chicago
Flershem, Whitney Byford..Chicago
Flynn, John M.....Chicago
Foley, Edmond Ignatius....Chicago
Forsen, Henry Benjamin....Chicago
Forshee, Charles Allan.....Chicago
Foster, Henry Stuart.....Chicago
Frank, Ernest G. F.....Chicago
Frechette, Charles Joseph...Chicago
Friberg, Elmer .....Chicago
Friedlund, Frank Oscar.....Chicago
Friedman, Isaac S.....Chicago
Frost, Sidney John.....Chicago
Frye, Nels .....Chicago
Furse, John Russell .....Chicago
Gaensslen, Carl August....Chicago
Gallo, Eugene Thomas.....Chicago
Gaussin, Mame .....Berwyn
Geary, William T.....Chicago
Gerlach, Charles .....Chicago
Germain, Silas Edward, Jr..Chicago
Germer, Angela Edith.....Chicago
Gibbons, Thomas P.....Chicago
Giffey, Max .....Chicago
Ginski, Phil Frank.....Chicago
Glass, Alvin McCorkle.....Chicago
Gleason, Anna .....Chicago
Glessner, Arthur Brown....Chicago
Goetz, Emil .....Chicago
Goheen, Clare M.....Chicago
Goodell, Edward DeLos....Chicago

Goodykoontz, Wilmer ....Chicago
Gordon, Henry James.....Chicago
Graffis, William Herbert, Jr.Chicago
Grawoig, Herman .....Chicago
Green, Anna Elizabeth....Chicago
Green, Reginald H. A.....Chicago
Greenwood, Arthur Stanley.
.....Lake Mills, Wis.
Greenwood, Robert Campbell
.....Lake Mills, Wis.
Gregory, George Daniel...Chicago
Griffith, Llewellyn .....Chicago
Grobe, Herbert Franklin....Chicago
Gruenhut, Flora.....Chicago
Grussinger, Anna Matilda..Chicago
Gullans, John .....Chicago
Gullikson, Harry DeKalb..
.....Platteville, Wis.
Gunther, Samuel Lazarus..Chicago
Guthmann, Ralph Edmund..Chicago
Haferkamp, Edward William
.....Chicago
Hake, Gustav .....Chicago
Hale, Sanborn .....Chicago
Hall, Garnet Kenneth.....Chicago
Hamilton, Henry Raymond,
Jr. .....Oak Park
Hamm, Arthur Henry.....Chicago
Hannagan, Patrick S.....Chicago
Hanson, Arthur Melvin.....Chicago
Harber, William Edward..Chicago
Hargrave, Albion Fellows..Chicago
Hargrave, Charles Milton..Chicago
Harnblom, William Clarence
.....Chicago
Hartwig, Hermann Albert..Chicago
Hatting, Henry William....Chicago
Hauber, Frank J.....Chicago
Hausser, Arthur Henry.....Chicago
Hayner, Silas Addison.....Chicago
Heller, Sol .....Chicago
Helms, Fred William.....Chicago
Hennessy, Mark Michael....Chicago
Hiller, Joseph .....Chicago
Hiller, Walter Nathan.....Chicago
Hillier, Edward William...Chicago
Hirata, Iwao .....Chicago
Hodges, Hayden .....Chicago
Hoerich, Ernest Augustus...Chicago
Hoffman, Abraham B.....Chicago
Hoffman, Mark .....Chicago
Hoffmann, Paul .....Chicago
Höhn, Otto Frederick Her-
mann .....Chicago
Hornbeck, John Solomon....
.....Morgan Park
Horney, George Estel.....Chicago
Hossack, Alexander William.Chicago
Hough, Norman Granville.Chicago
Howe, William Potwin....Chicago
Hoxie, Dae Washburn.....Chicago
Hoxworth, Clifton Cleveland
.....Chicago
Hoyt, Earle Reginald.....Chicago
Huebner, Charles .....Chicago
Hurley, John C.....Chicago
Immel, Paul Peter.....Chicago
Israelstam, Morris.....Chicago
Janke, William Charles...Chicago
Jansen, Charles H.....Chicago
Jeffery, Arthur Lovett.....Chicago
Jenkins, George Sedgley...Chicago
Jensen, John Arthur.....Chicago
Jensen, Zopher Lacey.....Chicago
Jernberg, Carl Linder.....Chicago
Johnson, Arthur E.....Chicago
Johnson, Elvin H.....Chicago
Johnson, John Frederick....Chicago
Johnson, Robert Winthrop...Chicago
Jones, Richard George.....Chicago
Juchhoff, Frederick .....Chicago
Kaeding, Otto Paul.....Chicago
Kaplan, Moses Philip.....Chicago
Kearns, Jerry Joseph.....Chicago
Kehr, Carl Merriman.....Chicago
Kelly, Mark Joseph.....Chicago
Kenyon, Edward .....Evanston
Kerr, Cathel Caleb.....Chicago
King, William Calvin.....Oak Park
Kinney, Avery Warren....Chicago
Klemmer, Simon Aloysius...Chicago
Klewer, John Louis.....Chicago
Kline, Ernest Wesley.....Chicago
Kobylanski, Wiktor.....Chicago
Koehler, Edward Walter....Chicago
Kolkow, George J.....Chicago
Krah, Carl A.....Chicago
Kreidler, Maynard Loven..Kewanee
Kresl, Carl, Jr.....Chicago
Krumwiede, Theodore Henry
.....Chicago
Kryzinski, Antony Jacob....Chicago
Kuhn, Joseph Peter.....Chicago
Kuntz, Philip Edward.....Chicago
LaDue, Harry Dewitte.....Chicago
Lake, David E.....Brookfield
Langlund, Arthur A.....Chicago
Larsen, Harry W.....Chicago

Larsen, Walter Theodore...Chicago
Larson, Lewis Adolph.....Chicago
Latus, William Henry.....Chicago
Lechler, E. Fred.....Chicago
Lee, James Edward.....Chicago
Lesley, Neva Olive.....Berwyn
Levine, Ephraim .....Chicago
Lew, Frank Mandeville.....Chicago
Liebling, Jehiel.....Chicago
Linblade, Ralph Herbert....Chicago
Lind, Philip A.....Chicago
Lindeen, Raymond Ernest...Chicago
Lippmann, Albert Frank....Chicago
Lobanoff, Paul Earl.....Wilmette
Lundblad, Byron .....Chicago
Lutin, Clyde Irving.....Chicago
Lynch, William Robert.....Chicago
McBrady, Edward John....Chicago
McCandless, William .....Chicago
McCaughey, M. J.....Chicago
McConnell, Charles F.....Chicago
McCready, Herbert Alexander .....Chicago
McDonough, Frank Thomas .....Chicago
McGibbon, Edmund Everton .....Chicago
McGinnis, Eugene Aloysious .....Chicago
McGregor, James Anderson. .....Chicago
McGuinn, Edward Bartly..Chicago
McKay, Milton Edgar.....Chicago
McKinley, John Morrison, Jr. .....Chicago
McLachlan, Edwin James...Chicago
McLeish, Archibald Lindsay .....Chicago
Maddock, William Herbert.Chicago
Maechler, Fred .....Chicago
Maehler, Richard Robert....Chicago
Mally, George Washington.Chicago
Maloney, Frank Lee.....Chicago
Manley, Frank H.....Chicago
Mann, George Edward.....Chicago
Mansur, Charles Isham.....Chicago
Martin, Roy L.....Chicago
Mathias, Lewis Dwight....Chicago
Matthisen, Andrew Feder...Chicago
Maul, William Henry.....Chicago
Mays, John Frank.....Chicago
Merker, Albert John.....Chicago
Merrill, Frank Eugene.....Evanston
Mertes, John Joseph.....Chicago
Meyn, Henry John.....Chicago
Meynen, Carl.....Chicago
Mickey, Richard Harleston..Chicago
Miller, Frederick Merritt... .....Morgan Park
Miller, Richard Ashley.....Chicago
Mills, Edgar Stuart.....Harvey
Mitchell, Walter George....Chicago
Modica, Ralph George.....Glencoe
Moller, William Carl.....Chicago
Monson, Marshall Burnell.. .....Blanchardville, Wis.
Moore, James Joseph.....Chicago
Morrell, John W.....Chicago
Moulding, Ralph Clayton...Chicago
Mueller, Richard.....Chicago
Neiman, Ralph Richard.....Chicago
Nelson, George Walter.....Chicago
Nelson, N. Gilbert.....Brookfield
Neyendorf, Arthur H.....Chicago
Niemack, Hans A.....Chicago
Nieman, William Charles..Chicago
Niquette, Clarence Alfred...Chicago
Nolan, John Joseph.....Chicago
Norman, Charles Robert....Chicago
Noyes, George Frederick...Evanston
O'Connell, Harold Patrick..Chicago
Ogilvie, Alexander Wright Taylor .....Chicago
Ohlin, John A.....Chicago
Ohnesorge, Herbert Bertram .....Maywood
Olsen, Arthur .....Forest Park
Olson, Carl J.....Chicago
Olson, David Gust.....Chicago
O'Malley, Robert Francis...Chicago
Organ, Patrick Joseph.....Chicago
Palmer, Ernest .....Chicago
Paluszek, Adam J.....Chicago
Papavasiliou, Basilios Constantine .....Chicago
Pape, Otto R.....Chicago
Parkin, Albert W.....Chicago
Pascoe, Raymond Andrew...Chicago
Pearson, Albin .....Chicago
Perrill, Alger White.....Chicago
Peters, Philip Herman.....Chicago
Peters, Walter Leonard.....Chicago
Peterson, Carl Lawrence....Chicago
Peterson, Frank Jones.....Chicago
Peterson, J. Gunnar.....Chicago
Petrie, David .....Chicago
Pfluegner, George C.....Chicago
Polzin, Elmer Frederick.....Chicago

Portley, Daniel Joseph.....Chicago
Potter, Eleanor Moffitt.....Chicago
Potter, Merle Howard.....Chicago
Potter, U. G.....Chicago
Price, Clarence Virgil.....Chicago
Price, Jacob Jay.....Chicago
Price, Walter Holton.....Chicago
Price, W. Morris.....Chicago
Protheroe, Walter Stanley..Chicago
Randall, Theodore Bruce....Harvey
Randall, Winslow Henry....Harvey
Rasmussen, George Robert..Chicago
Raymond, Philip Wyckoff..Evanston
Redenbaugh, Marcus Marcellus .....Chicago
Reed, Joseph L.....Chicago
Reichert, Alfred Clyde.....Chicago
Reidenbach, George Frederick .....Chicago
Reyher, Robert Edmund.....Chicago
Rich, Irvin J.....Chicago
Richey, Victor Newton.....Chicago
Richtsteig, Richard Julius..Chicago
Riedmayer, Aloysius Joseph.Chicago
Rigeman, August Herman.Chicago
Rivett, Claude Fox.....Chicago
Rixon, Harry .....Chicago
Roberts, Francis Eugene, Jr..Chicago
Rodger, Alfred Heath.....Chicago
Roth, Maurice .....Chicago
Rothbord, Benjamin Elliott.Chicago
Ruckert, Arthur John.....Chicago
Ruth, Chester .....Chicago
Sall, Charles Oscar.....Chicago
Salmonovitz, Leo .....Chicago
Sandberg, Harry Robert....Chicago
Saner, Bert M.....Chicago
Sauerman, John Andrew...Chicago
Scharmer, Lillian .....Chicago
Schkurovich, George Joseph.Chicago
Schroeder, Walter Hubert..Chicago
Schuber, Alfred Richter....Chicago
Schulz, Ernest Rudolf.....Chicago
Seaverns, Louis Currier.....Chicago
Sexton, Fred Warren.....Chicago
Seymour, Darwin .....Chicago
Shine, Joseph John.....Chicago
Sievers, William Emil.....Chicago
Silverman, Maurice B.....Chicago
Sinclair, Joseph Dickson.....Chicago
Sisson, Blanche Emeline.....Chicago
Skarpinski, Alex Alfons...Chicago
Skubic, Edward Paul.....Chicago
Smith, Arthur G.....Oak Park
Smith, John Vincent.....Chicago
Smith, Orlo Dean.....Rock Island
Solon, Edward James.....Chicago
Solon, Leo .....Chicago
Spencer, George Cleveland..Chicago
Speyer, John .....Chicago
Spratt, William Robert.....Chicago
Srill, Edward A.....Chicago
Steelhammer, Arvid Morris.Chicago
Storke, Butler Rogers.....Oak Park
Streccius, Louis Arthur.....Chicago
Strelow, Herman John.....Chicago
Strohm, Edward C.....Chicago
Strom, Blaine .....Chicago
Sturges, James Cary.....Chicago
Sullivan, Joseph .....Chicago
Sweeney, Gerald Francis...Chicago
Takahashi, Charles Takeshi.Chicago
Taylor, Barry .....Chicago
Teevan, John Charles.....Chicago
Tessmann, August .....Chicago
Thompson, Arthur Clift....Evanston
Thulin, Fred .....Chicago
Toebelman, Edmund John...Chicago
Tonk, Percy Albert.....Chicago
Tonneson, Henry .....Chicago
Tortorell, Joseph Nichols....Chicago
Towle, Elizabeth Clara.....Chicago
Turrell, William Oliver....Chicago
Tuverson, Frank Ferdinand..Chicago
Twichell, Jonas J.....Chicago
Ullman, Jacob Martin.....Chicago
Unger, Samuel .....Chicago
Vale, Mabel Lockhart.....Berwyn
Vallely, Joseph .....Chicago
Vallette, Elbert Carlyle....Chicago
Vanderblue, Homer Bews..Evanston
VanderHoeven, Frank J....Chicago
Vanderwalker, Fred Norman.Chicago
Vasak, Otto .....Chicago
Vavinek, Edward .....Chicago
Vernon, Julia Graves.....Chicago
Vernon, Olive .....Chicago
Vescelus, Clarence Edward..Chicago
Vineyard, Philip Porter....Chicago
Voorhees, Flora Alfaretta...Chicago
Wager, F. W.....Chicago
Wallace, William, Jr.....Chicago
Wallenborn, Peter Ambrose.Chicago
Wallin, John Erhard.....Chicago
Walter, George Benjamin..Wheaton
Watson, James George.....Chicago
Watson, John Francis.....Chicago
Weber, Norbert William....Chicago

Webster, Arthur Lacey..Des Plaines
Webster, Dean Folger..Des Plaines
Weiss, George Varga.....Chicago
Weiss, Julius Caesar.....Chicago
Weitzenfeld, David Henry..Chicago
Welin, Harvey John.....Chicago
Wells, Harvey H.....Chicago
Wendel, George John.....Chicago
West, Harry Francis.....Chicago
Westberg, Frederick Theodore .....Chicago
Westphaln, Harry Garfield..Chicago
White, William .....Chicago
Wickens, Charles Godfrey..Chicago
Willard, Burr .....Chicago
Willey, Curtis Holgate.....Chicago
Williams, Percival Lloyd..Chicago
Wilson, Alfred .....Chicago
Wilson, Howard Eugene....Chicago
Wilson, Jason L.....Chicago
Winn, Gilbert N.....Chicago
Woldhausen, Walter Louis.Chicago
Wolma, Joseph Dee.....Chicago
Wood, Edwin William....Maywood
Wright, Henry Gilbert....Kewanee
Young, Thomas Harrigan..Chicago
Zillmer, Frank Gottfried...Chicago
Zimmerman, Edwin Charles.Chicago
Zimmerman, John Frederick.Chicago
Zolkowski, Edward Anthony .....Chicago

School of Oratory

REGISTER OF STUDENTS 1911-1912

POST-GRADUATES

Booth, Clio Stafford.....Evanston
Bryant, Marjorie A.....Bloomington
Caldwell, Juniata E....Toledo, Iowa
Corliss, Alida.....Sabula, Iowa
Countryman, Marguerite..... Aberdeen, So. Dak.
De Coudres, Frances Anna..Evanston
Frantz, Eula May.....Paw Paw
Hardy, Ione Elizabeth.Lansing, Mich.
Hughes, Frances Mary..... Downers Grove
McNamara, Omega.....Peoria
Mitchell, Minnie Hughes..... What Cheer, Iowa
Porterfield, Jean....Marinette, Wis.
Price, Edna May.....Galion, Ohio
Roy, Phyllis Winifred..... Darlington, Wis.
Straus, Norma.....Milwaukee, Wis.
Upton, Emily.....Chicago

SECOND YEAR

Armstrong, Dorothy.Milwaukee, Wis.
Asher, Vera .....Trenton, Mo.
Bailey, Adanois.....Milford, Conn.
Baldwin, Alice Winona..... Washington, Pa.
Breed, Lillian Vida..... Brookings, So. Dak.
Blakeslee, Lillian Ada Frances.. Savannah, Mo.
Briggs, Bessie Ida.....Lima, N. Y.
Burtis, Aurel....Garden City, Kans.
Calkins, Bertha.....Lincoln, Neb.
Chapman, Ethel Emily..... West Rush, N. Y.
Coutant, Claire Christine..... Minneapolis, Minn.
Covell, Beulah Land..... Traverse City, Mich.
Crain, Alice Elizabeth.....Augusta
De Wolf, Lillian Horton.Gibbon, Neb.
Diehl, Teresa Lucinda..Elroy, Wis.
Dielman, Edith.....Winfield, Kans.
Earngey, Elizabeth Gardiner... Evanston
Edington, Pauline Roberta..... Terre Haute, Ind.
Elijah, Anna Lillian..... Clarence, Iowa
Gaskins, Nina.....Alton
Gillen, Sallie Howell.Saginaw, Texas
Grigsby, Bertha Doris..... Petersburg, Ind.

Gullickson, Helen..Sioux City, Iowa
Hatch, Bessie May.....Timewell
Hayner, Ruth Margaret.....
Madison, Wis.
Heath, Mary Odessa.....Gilman
Helm, Marion Ruth.....Chicago
Hettinger, Violet Julia.....Chicago
High, Sadie Margaret.....
West Lebanon, Ind.
Hinkson, Anna.....Stuart, Iowa
Holden, Margaret Ruth.....Chicago
Hubbard, Florence Blanchard...
Lake City, Minn.
Johnson, Bess.....Fremont, Ind.
Johnson, Douglas.....St. Louis, Mo.
Kelley, Evelyn Kathryn.....
Kenosha, Wis.
Kidd, Lena.....Corder, Mo.
Lawrence, Eleanor.....Joliet
Lentz, Glee Romain.South Bend, Ind.
Lewis, Ethel May....Cleveland, Ohio
Macleod, Alice Wicklund.....
Council, Idaho
MacMillan, Nora Belle.....
Norton, Kans.
Moore, Louise Duane.....Evanston
Mowre, Arminda Jacqueline...
Billings, Mont.
Myers, Ruby Ray..Livingston, Mont.
Nettleton, Berenice....Milford, Conn.
Newton, Jeannette.....Pana.
O'Leary, Edythe Geraldine.....
Butte, Mont.
Osborn, Mabel de Florence....
Wannatah, Ind.
Patch, Roscoe.....Hartley, Iowa
Patty, Nella.....Oneida
Paul, Eleanore.....Pulaski, Ind.
Pease, Hallie.....Chicago
Perkins, Ione Marie..McArthur, Ohio
Pitner, Helen.....Fresno, Calif.
Price, Katharine.....Monticello, Ind.
Reese, Clara Isabella.....Chicago
Riggs, Golda Glenn..Shelburn, Ind.
Robinson, Ethel.....Oak Park
Rogers, Ethel Veda...Sterling, Kans.
Roggenbau, Gladys Marcia.....
Milwaukee, Wis.
Rollins, Emma.....Evanston
Russell, Ruth.....Oswego
Shirk, Hermona .....Glencoe
Skromme, Linda Orton.Roland, Iowa
Smith, Coral.....Morrisville, Mo.
Smith, Marian .....Evanston
Stearns, Mabel Anna.....
Montezuma, Iowa
Sutton, Ida Belle.....Moro, Iowa
Tanner, Burton F.Mitchell, So. Dak.
Ungers, Louise Margaret.....
Watertown, Wis.
Vaughan, William .....
Nilesville, So. Dak.
Verbeck, Marjorie M.....Freeport
Walsh, Margaret ...Holland, Mich.
Warner, Glenn Yost..Wooster, Ohio
Waugh, Helen .....Chicago

FIRST YEAR

Andrews, Florabell Fern....Dundee
Auer, Emma Louisa.....Peoria
Ayers, Babe .....Burlington, Wis.
Bausch, Edna H.....Chicago
Berry, Katherine .....
Richland Center, Wis.
Bird, Amy Marie.....
White Sulphur, Ohio
Boles, Marie.....Mishawaka, Ind.
Butler, Agnes Helen.....
Estherville, Iowa
Colt, Lucille Isabel.....
New York, N. Y.
Cudworth, Marilla Converse.Chicago
Davis, Louise Spenser.....
Escanaba, Mich.
Dennis, Alta.....Jaspar, N. Y.
Engelhard, Hope Hulda..Hollywood
Ferris, Jessie Leone.....Pekin
Fry, Frances .....Marion, Ohio
Gray, Adelaide .....Morrison
Green, Mabel Preston.....Chicago
Grimes, Weltha Ruth..Newton, Iowa
Hain, Helene.....Elkhart, Ind.
Hammond, Ethel....Waterloo, Iowa
Harrison, Margaret.....Craig, Colo.
Hartwig, Lillian Antoinette.....
Watertown, Wis.
Harvey, Mabelle.....Lohrville, Iowa
Henderson, Adeline Louise...El Paso
Hunt, Beulah Ariel..Mankato, Minn.
Jones, Gladys Mavonwy.....
Watertown, So. Dak.
Jones, Laurie Elizabeth.....
Watertown, So. Dak.
Kelly, Catherine Frances.....Joliet
Kimball, Leonia..Battle Creek, Mich.
Kuhl, Phyllis Georgia.....Lincoln

Lambin, Maria Ward.....Chicago
Lewis, Ada Theressa.....
Battle Creek, Mich.
Matthews, Birdie Mae.....Cairo
Merrill, Kitty Gladys.....
Nora Springs, Iowa
Merriman, Alma Marie.....
Williamsville
Morse, Carrie Marie....Shelby, Ohio
Murphy, Anna .....Peoria
Newell, Andrew .....Monticello
Norton, Florence.....Bedford, Ind.
Norton, Helen .....Bedford, Ind.
O'Neill, Marjorie Edith.....
Buchanan, Mich.
Overby, Edna ....Mallette, So. Dak.
Padgett, Helen Ryburn.....Ottawa
Palmer, Irma Marie.....
Washington, Iowa
Paris, Bernice.....Morrisville, Mo.
Paul, Mary .....Elkhart, Ind.
Perkins, Mary .....Marengo, Ind.
Reinhard, Marie Margaret...Cullom
Robertson, Georgie ....Marshall, Mo.
Robinson, Alma ..Dowelltown, Tenn.
Ruehl, Edith Alice.....Evanston
Schaefer, Marguerite.Highland Park
Sexauer, Mae .....Belvidere
Shields, June Genevieve.....
Detroit, Mich.
Sollinger, Anna Janet.Ft. Smith, Ark.
Stephens, Edna .....Chicago
Strayhorn, Margaret..Ft. Smith, Ark.
Storms, Edna Anna..Paterson, N. J.
Thayer, Ida Roske.....
Blue Earth, Minn.
Tilly, Ethel .....Muskogee, Okla.
Wait, Ethel .....Racine, Wis.
Walker, Lillian .....Oshkosh, Wis.
Voght, Mona .....Escanaba, Mich.

SPECIAL STUDENTS

Armstrong, Helen .....Evanston
Anderson, Carla M...Preston, Minn.
Bowen, Vera.....Greencastle, Ind.
Brogan, J. C.....Evanston
Barney, Flavel .....Pratt, Kans.
Barthoff, W. .....Glencoe
Bruce, Helen .....Evanston
Balfour, Nina .....Augusta
Carlett, Bernice .....Chicago
Callaghan, J. E. .....Chicago
Chapin, Metta .....Evanston
Ditto, Vivian Grace.....Joliet
Donahoo, Harry .....Evanston
Dewey, Perses .....Kenosha, Wis.
Elder, Chas. B.....Chicago
Fletcher, A. Lee .....Evanston
Frazer, Gladys .....Chicago
Forbes, Grace .....Evanston
Gilson, Frank .....Winfield, Kans.
Giddings, Leone .....Evanston
Green, Elsie ....Kansas City, Kans.
Graham, Helen .....Evanston
Hememway, Ruth .....Evanston
Haugan, Alice .....Evanston
Hughes, Hilda ....La Grange, Ind.
Holbolt, Mary .....Evanston
Hill, Gwendolin .....Oshkosh, Wis.
Hotchkiss, Mary.....Fox Lake, Wis.
Jewett, Hazel .....Chicago
Kessler, Janet .....Evanston
Leonard, Wilma .....Evanston
McMillan, Monna .....Evanston
McGorry, Mrs. J.....Evanston
McMasters, Marguerite ....Evanston
McKenzie, Florence.Calgary, Canada
McKie, Geo. A.....Colliers, S. C.
Nudicksen, Annette.Milwaukee, Wis.
Newell, Isabella .....Evanston
Perkins, Marjorie .....Evanston
Perkins, Jeannette .....Evanston
Piper, Robert G.....Berwyn
Putnam, Irving .....Chicago
Pardee, Roy .....Bear Lake, Pa.
Patten, Helen .....Evanston
Pearson, Mrs. Joseph.....Evanston
Pearson, Mrs. H.....Evanston
Reese, Ernest A.....Hubbard, Iowa
Rohdoff, Jane .....Chicago
Strawich, Bell .....Evanston
Schee, Florence .....Evanston
Smith, S. Rayner.....Evanston
Shepard, Allen .....Kenosha, Wis.
Taylor, James .....Evanston
Taylor, Samuel .....Evanston
Traxler, May .....Evanston
Tipton, Frank .....Evanston
Towne, Emma .....Evanston
Townsend, Harry.....Mt. Carmel
Walrath, W. .....Evanston
Wolcott, J. D. .....Evanston

Wilkinson, J. E. ..... Evanston
Whiteside, Eugene ..... Evanston
Wallace, Clarence ..... Joliet
Wesse, Edith ..... Joliet
Wilcox, Muriel ..... Hammond, Ind.

Garrett Biblical Institute

REGISTER OF STUDENTS 1911-1912

GRADUATE STUDENTS

Tormohlen, Harvey Frederick ..... Holland, Ind.
A.B., German Wallace College; B.D., Garrett Biblical Institute

Waring, Celia ..... Kansas City, Mo.
A.B., Northwestern University

CANDIDATES FOR DEGREE

THIRD YEAR

Arnold, John Franklin ..... Des Moines, Iowa
B.S., Simpson College

Bennett, Eralza Allen ..... Madison, So. Dak.
Ph.B., Morningside College

Blackstock, William Ernest ..... Rutland, Iowa

Brown, Joseph Charles ..... Litchfield
A.M., McKendree College

Broyles, Patton Reeve ..... Greenville, Tenn.
A.B., Greenville & Tusculum College

Butler, Nate Elton ..... Grove City, Ohio
A.B., Ohio Wesleyan University

Coe, Albert Erwin ..... Milestone, Can.
A.B., Cornell College

Crawford, John Orlando ..... Resort, Ky.
A.B., Kentucky Wesleyan University

Daschler, Albert Frederick ..... Staples, Minn.
A.B., Central Wesleyan College

Ebert, John Henry ..... Frankfort
A.B., Charles City College

Evans, John Ellis ..... Topeka, Kans.
A.B., Simpson College

Fisk, Bradford Truesdale ..... Grand Island, Neb.
B.S., Grand Island College

Ford, Charles Cleveland ..... Roseville, Ohio
A.B., Ohio Wesleyan University

Holmes, Merrill Jacob ..... Indianola, Iowa
A.B., Simpson College

Jones, Oscar Francis ..... Mason City
B.S., Illinois Wesleyan

Kendall, Willmoore.....Ardmore, Okla.
Kirkpatrick, Blaine Evron.....Raub, Ind.
A.B., Northwestern University
Kiser, Stephen Lott.....Sedgwick, Kans.
A.B., Baker University
Law, Charles Homer.....Salesville, Ohio
A.B., Ohio Wesleyan University
Lease, William Henry.....Plover, Iowa
A.B., Morningside College
Lehman, John Otley .....Decatur
B.A., Findley College
Long, John Fletcher.....Tacoma, Wash.
A.B., University of Puget Sound
Mangun, Glenn Elbert.....Greencastle, Ind.
A.B., DePauw University
Milholland, Paul.....Austin
Singleton, James Herbert.....Buckley
B.S., Northwestern University
Walker, John Daniel.....Chicago
A.B., University of Nebraska
Wallace, Charles Marion.....Crete
B.A., Ohio Wesleyan University
Wilkinson, James Ernest.....Rapid City, Can.
Ph.B., Hamline University

SECOND YEAR

Armitage, Clyde Foster.....Elizabeth
A.B., Northwestern University
Blakely, Frank Ross.....Harlan, Iowa
A.B., Western Union College
Carlin, Charles Russell.....Lebanon
A.B., McKendree College
Caylor, Samuel Henry.....Lyons, Ind.
A.B., DePauw University
Church, Fred William.....Wellsville, N. Y.
Cissna, William Everett.....Dalton Station
B.L., Moores Hill College
Dong, Suk Kee.....Pukchen, Korea
Donovan, Benjamin Franklin.....Lemon, So. Dak.
A.B., Wesleyan College
Ericson, Rudolph.....Evanston
Fouts, Walter A. .....Chili, Ind.
A.B., DePauw University
Glotfelty, Philip Rutherford.....Farina
A.B., KcKendree College
Halter, Albert Arthur .....De Soto, Mo.
A.B., Northwestern University

Hartzler, Coleman Clark.....Dawn, Mo.
A.B., Missouri Wesleyan College

Hickman, Eugene C. .....Bath, So. Dak.
A.B., Hamline University

Horning, Orlando .....Mitchell, So. Dak.
A.B., Dakota Wesleyan University

Jones, Alva Putnam.....Chattanooga, Tenn.
B.Ped., Chattanooga University

Klaus, Armin Vincent.....Charles City, Iowa
A.B., Charles City College

Lacy, George Carleton.....Delaware, Ohio
A.B., Ohio Wesleyan University

Lauer, Ernest .....Humphrey, Neb.
A.B., Iowa Wesleyan University

Leonard, Chauncey Wood.....Savannah

McClure, Charles Sherman .....South Whitley, Ind.
A.B., Northwestern University

Nimz, Alfred Barnard.....Manitowoc, Wis.
A.B., German Wallace College

Otwell, Thomas Herbert.....Haleyville, Ala.
A.B., Ohio Wesleyan University

Roberts, Percy Vivian..... .....Bangalore, India

Sprouse, Claude Willard.....Capron

Sweetland, Leon H. .....Doe Run, Mo.

Stahl, Emory Wayne.....Chicago
A.B., Simpson College

Thompson, Loyal Morris.....Payson
B.S., Illinois Wesleyan University

Warrick, Cleve Leland.....Barnesville, Ohio
A.B., Scio College

Watson, Louis .....New Market, Iowa
A.B., Simpson College

Wilson, Omer Janell.....Cameron, Mo.
A.B., Missouri Wesleyan College

FIRST YEAR

Allen, Oliver Boyd.....Evanston

Anker, Harry Peter.....South Holland
A.B., Hope College

Beal, William Dorsey.....Bucyrus, Ohio
A.B., Ohio Wesleyan University

Bliss, William Bingham.....University Place, Neb.
B.A., Nebraska Wesleyan University

Camp, Cecil LeRoy.....Espanola, Wash.

Cartwright, Frank Thomas.....Racine, Wis.
A.B., Ohio Wesleyan University

Collis, Ralph Hall.....Iowa Falls, Iowa
A.B., Ellsworth College
Dempster, Alexander Grover.....Plainville
A.B., Carleton College
Deich, Charles .....La Crosse, Ind.
B.S., Moores Hill College
Glass, James LeRoy.....Wichita, Kans.
A.B., Southwestern College
Glotfelty, John Franklin.....Ewing
A.B., McKendree College
Goodenow, Harold Elijah.....Detroit, Mich.
Hall, George Washington .....Eagleville, Calif.
A.B., Simpson College
Hobbs, Elmer LeRoy.....Moundville, Mo.
Johnson, Ariel Brooks.....Delaware, Ohio
A.B., Ohio Wesleyan University
Keast, Martin Henry.....Billings, Mo.
A.B., Simpson College
McVay, John Isaac.....Fullerton, Neb.
A.B., Nebraska Wesleyan University
Marriott, Fay.....Brownstown
Moore, Aubrey Shannon.....Evanston
Moore, Guy Z.....Carrollton, Mo.
Olmstead, Clarence Eugene.....Genoa
A.B., University of Illinois
Sellers, Horace Bruner.....Elgin
Sager, Elizabeth Rouark.....LaVeta, Colo.
A.B., Colorado College
Sager, Frederick Christian.....LaVeta, Colo.
A.B., Colorado College
Smith, Mearl Curtis.....Lincoln, Neb.
Sutton, Reese Kester.....Garnett, Kans.
A.B., Nebraska Wesleyan
Swick, Robert William.....Licking, Mo.
A.B., Simpson College
White, John Merrill.....California, Pa.
A.B., Allegheny College

CANDIDATES FOR DIPLOMA

THIRD YEAR

Austin, John.....Edgerton, Can.
Briggs, Walter Merrill.....Winslow
Bryans, Alexander.....Solomon, Kans.
Clements, Emmett Eckert.....New Hartford, Iowa
Cooper, Clark William.....Toronto, Ohio
Day, William Henry.....Sibley
Dussair, John Carl.....Evanston

Hartley, Helen Rosetti.....Potsdam, N. Y.
Hoon, Theodore Ernest.....Kokomo, Ind.
Pedersen, Peder W.....Marinette, Wis.
Peterson, Halbert Stephen.....Lafayette, Ind.
Putnam, Charles Henry.....Bedford, Iowa
A.B., Cornell College
Rankin, Julian Jerome.....Wanatah, Ind.
A.B., Central Normal College
Shenefelt, Orville Porter.....Eureka, Mont.
Smoot, Harry Wilbur.....Bone Gap
Swisher, Ele D.....Millington
A.B., University of Illinois
Wolcott, John Drake.....Vincent, Iowa

SECOND YEAR

Alexander, Benjamin A.....Beatrice, Neb.
Baumann, Christian Wilhelm.....Kathryn, No. Dak.
Berggreen, Andrew.....Brooklyn, N. Y.
Bicksler, Harry Edward.....Lancaster, Pa.
Bringedahl, Joachim Gerhard.....Seattle, Wash.
Buxton, Howard Price.....Joplin, Mo.
Damm, Jacob.....Ayton, Can.
Dinsdale, Arthur.....England
Hofstad, Arthur.....Evanston
Hanada, Toich Esoji.....Moji, Japan
Hillman, Axel Emanuel.....Wayne, Kans.
Jacobs, Peter.....Arlington Heights
Johnson, Henry.....Milwaukee, Wis.
Levin, Richard Arthur.....Racine, Wis.
McBride, Charles F.....Antrim, Ohio
McCracken, Alexander Allison.....Chicago
Miller, Herbert F.....Kilgore, Ohio
Norman, John August.....Chicago
Odegaard, Andrew.....Evanston
Provan, Frederick Lyman.....Franklin, Me.
Rohl, Forest Edgar.....Beggs, Okla.
A.B., DePauw University
Richards, Harry Johnson.....Paonia, Colo.
Spalding, Coit Earl.....Yates Center, Kans.
Stewart, James William.....Bismarck
Tipton, Ernest Holmes.....Lexington, Neb.
Townley, Hubert Claude.....London, England
Waggoner, Gordon.....West Liberty
Wright, Quincy Roscoe.....Hannibal, Mo.

FIRST YEAR

Adams, Ben Harrison.....Manchester, Iowa
Bach, Harald Olav.....Boston, Mass.
Bean, Ivan H.....New Hamburg, Can.
Beavin, Thomas Sydney.....Frederic, Wis.
Bethards, Rolland Elmer.....Odin
Black, Guy Harrison.....Marion, Ind.
Brann, Wilbur Earl.....Fort Benton, Mont.
Camp, Alice Hubbard.....Rockford

Carnine, Albert Guy.....Allenville
Cowley, William Griffeth Watson.....Whittemore, Iowa
Cox, Marvin D.....Oskaloosa, Iowa
Cronk, Winfred Clark.....Hinsdale
Dean, John Edgar.....Chicago
Ellison, Lewis Sherman.....Armstrong
Firth, Walter.....Elkton, Mich.
Freeman, Orrin Walter.....Kansas City, Mo.
Gibbs, Commodore Perry.....Morgantown, Ind.
Hall, Leslie Anson.....Waterloo, Ohio
Hallock, Rollin Collier.....Youngstown, Ohio
Hart, Thomas.....Chicago
Hutchins, James Alva.....Cedar Rapids, Neb.
Hutchins, Mina Wyalma.....Cedar Rapids, Neb.
Jewell, Orlando Arthur.....Mineral Point, Wis.
B.O., Lawrence College
Jones, Francis Price.....Dodgeville, Wis.
Jones, William Talbott.....Chrisney, Ind.
Jorgenson, Theodore Herman.....Linden, Iowa
Lawhead, Robert Emmett.....Lake City, Iowa
Lowrie, Samuel Beardsley.....Ravenna, Ohio
Marschall, George Herbert.....Rockland, Wis.
Mecay, William Newton.....Central City, Neb.
Monkman, George Edward.....Pella, Iowa
Newman, Samuel Andrew.....Berlin, Germany
Prescott, Edmund Eugene.....Liberty, Me.
Rosemurgy, Joseph.....Shopiere, Wis.
Sidders, Archibald William.....West Ealing, England
Steiner, Carl Frederick.....Evanston
Thomson, Arthur Gaunon Park.....Brisbane, Australia
Walker, Boyd Lee.....McCool Junction, Neb.
Whimsett, Grover Cleveland.....Chicago

SPECIALS

Broyles, Lizzie.....Greenville, Tenn.
Chesnutt, Jay LeRoy.....Chicago
Evenson, Edward.....Chicago
Gleason, Randall Homer.....Kankakee
Holland, Ary Jane.....Abilene, Kans.
Johnson, Iver Magni.....Racine, Wis.
Kvisgaard, Olaf.....Duluth, Minn.
Marks, Vernia.....Evanston
Pedersen, Anna.....Marinette, Wis.
Reed, John Watford.....Evanston
Rinkel, John Arthur.....Sleepy Eye, Minn.
Robins, FitzJames.....Evanston
Smith, Jens.....Green Bay, Wis.
Swanson, John A.....Evanston
Sweet, Mary Bailey.....Topeka, Kans.
A.B., Goucher College
Talmage, Morris.....Chicago
Taylor, James.....Helena, Mont.
Taylor, Samuel.....Helena, Mont.
Wallace, Samuel J.....Lyons, Wis.

Swedish Theological Seminary

REGISTER OF STUDENTS 1911-1912

FOURTH YEAR

Malmquist, Gustave.....Pasadena, Calif.
Olson, Gordon.....Chicago
Sundstrom, Newton.....McKeesport, N. Y.
Wilson, Algot.....Los Angeles, Calif.

THIRD YEAR

Ahnlund, Francis.....Chicago
Carlson, John.....Falconer, N. Y.
Cedarholm, Perry.....Brooklyn, N. Y.
Chellgren, William.....Racine, Wis.
Jensen, Carl.....Highwood
Lundgren, Anders.....Superior, Wis.
Magnuson, Carl.....Batavia
Nelson, William.....St. Charles
Pearson, Ivar.....Kansas City, Mo.
Swedberg, Andrew.....Des Moines, Iowa
Swenson, Arthur.....Willmar, Minn.

SECOND YEAR

Bergquist, Carl W.....Jamestown, N. Y.
Lind, Clarence.....Polk, Neb.
Samuelson, Albert.....Polk, Neb.

FIRST YEAR

Jensen, Andrew.....Highwood
Pearson, John.....Falconer, N. Y.

Norwegian-Danish Theological Seminary

REGISTER OF STUDENTS 1911-1912

Andressen, Edward .....Chicago
Bach, Harald .....Kenosha, Wis.
Berggren, Andrew.....Brooklyn, N. Y.
Bjerkli, Peter .....Clarsholm, Can.
Bringedahl, Joachim G.....Leland
Evensen, Edwin .....Chicago
Firing, Ottman .....Brooklyn, N. Y.
Hansen, Andrew .....Aberdeen, Wash.
Ingerslu, John .....Boston, Mass.
Jörgensen, William.....Brooklyn, N. Y.
Kvisgaard, Olav.....Duluth, Minn.
Olsen, Torjus .....Highwood
Smith, Jens.....Green Bay, Wis.
Odegaard, Andrew .....Portland, Ore.
Shurtleff, Howard .....Freeman

Summary

Summary

Officers and Faculty

Trustees		43
Officers of Administration		27
Faculty		421
College of Liberal Arts	92	
Medical School	149	
Law School	30	
College of Engineering	20	
School of Pharmacy	15	
Dental School	37	
School of Music	33	
School of Commerce	15	
School of Oratory	10	
Theological Schools	20	
Total		491
Less duplicates		437

Degrees Conferred, 1911

Honorary Degrees

	Men	Women	Total
Doctor of Laws	3	..	3
Doctor of Science	1	..	1
Doctor of Divinity	1	..	1
Master of Arts	..	1	1
	5	1	6

Degrees in Course

	Men	Women	Total
Doctor of Philosophy	1	..	1
Master of Arts	11	8	19
Master of Science	3	..	3
Bachelor of Arts	25	62	87
Bachelor of Science	35	25	60
Doctor of Medicine	141	..	141
Bachelor of Laws	51	..	51
Pharmaceutical Chemist	12	1	13
Graduate in Pharmacy	55	1	56
Doctor of Dental Surgery	106	1	107
	440	98	538

Diplomas

	Men	Women	Total
Graduate in Music	1	3	4
Diploma in Music	3	22	25
Diploma in Commerce	..	7	7
Graduate Nurse	..	60	60
	4	92	96

Summary of Totals

	Men	Women	Total
Honorary Degrees	5	1	6
Degrees in Course	440	98	538
Diplomas	4	92	96
	449	191	640
Less duplicates	11	1	12
	438	190	628

Register of Students, 1911-1912

The College of Liberal Arts

	Men	Women	Total
Fourth Year	71	110	181
Third Year	66	89	155

Second Year	117	169	286
First Year	146	164	310
Special Students	17	31	48
Summer School Students not enumerated elsewhere	14	26	40
	431	589	1020

The Graduate School

	Men	Women	Total
Fellows	8	2	10
Graduate Scholars	2	4	6
Resident Graduate Students	51	16	67
	61	22	83

The Medical School

	Men	Women	Total
Fourth Year	79	..	79
Third Year	57	..	57
Second Year	44	..	44
First Year	34	..	34
Unclassified Students	41	..	41
First Year Students in Evanston	4	..	4
Training School for Nurses	..	83	83
	259	83	342

The Law School

	Men	Women	Total
Third Year	99	1	100
Second Year	77	1	78
First Year	102	2	104
Course in General Practice	23	..	23
Graduate Students	5	..	5
Special Students	4	..	4
	310	4	314

The College of Engineering

	Men	Women	Total
All classes	57	..	57

The School of Pharmacy

	Men	Women	Total
Second Year	80	..	80
First Year	84	..	84
Special Students	16	1	17
	180	1	181

The Dental School

	Men	Women	Total
Third Year	104	..	104
Second Year	118	1	119
First Year	146	5	151
Special Students	36	2	38
Course for Practitioners and Graduates	20	..	20
	424	8	432

The School of Music

	Men	Women	Total
Regular Students	34	199	233
Special Students	13	132	145
	47	331	378

The School of Commerce

	Men	Women	Total
All Classes	467	21	488

The School of Oratory

	Men	Women	Total
All Classes	16	180	196

The Schools of Theology

	Men	Women	Total
Garrett Biblical Institute	181	11	192
Swedish Theological Seminary	20	..	20
Norwegian-Danish Theological Seminary	15	..	15
	216	11	227

The Preparatory Schools

	Men	Women	Total
Evanston Academy (including six students in Summer School not enumerated elsewhere)	322	132	454
School of Music, Preparatory Department	30	58	88
Grand Prairie Seminary	70	81	151
Elgin Academy	77	40	117
	499	311	810

Summary of Totals

	Men	Women	Total
College of Liberal Arts	431	589	1020
The Graduate School	61	22	83
The Medical School	259	...	259
Training Schools for Nurses	...	83	83
The Law School	310	4	314
The College of Engineering	57	...	57
The School of Pharmacy	180	1	181
The Dental School	424	8	432
The School of Music	47	331	378
The School of Commerce	467	21	488
Schools of Theology	216	11	227
School of Oratory	16	180	196
Preparatory Schools	499	311	810
	2967	1561	4528
Less duplicates	98	86	184
Total	2869	1475	4344
Total excluding Preparatory Schools with certain duplicates	2386	1171	3557

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